KV-T21MF1/T21MN1/T21MN11

RM-870

SERVICE MANUAL

ME Model

KV-T21MF1 Chassis No. SSC-H45K-A
KV-T21MN11 Chassis No. SSC-H45Q-A

GE Model

KV-T21MF1 Chassis No. SSC-J07D-A

Thailand Model

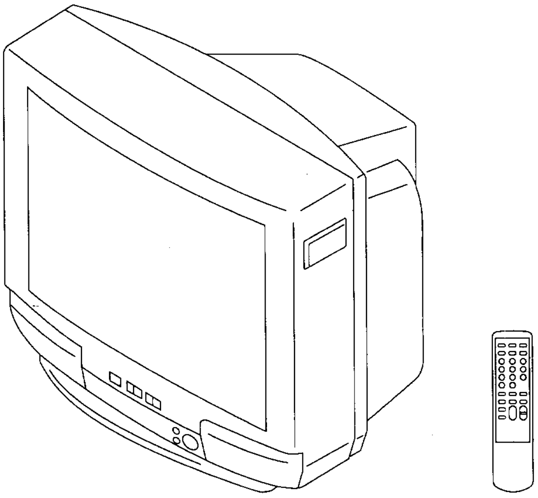
KV-T21MF1 Chassis No. SSC-H85D-A

Hongkong Model

KV-T21MN1 Chassis No. SSC-H72F-A

Russian Model

KV-T21MF1 Chassis No. SSC-J17C-A



BG-1S CHASSIS

MODEL OF THE SAME SERIES	
KV-T21MF1/T21MN1 KV-T21MN11	

MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL60, SECAM, NTSC4.43, NTSC3.58	
Stereo system	NICAM Stereo B/G, I; A2 Stereo (German) B/G	KV-T21MN1 KV-T21MN11
Channel coverage		
B/G	VHF: E2 to E12/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68/CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12/UHF: C13 to C57, R21 to R60/ CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF: A2 to A13/UHF: A14 to A79/ CATV: A-8 to A-2, A to W+4, W+6 to W+84	
Audio output (speaker)	3W x 2	
Inputs	Antenna: 75 ohms	
	VIDEO INPUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
Outputs	Headphone jack: mini jack	
	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
Picture tube	21 in.	
Tube size (cm)	54	Measured diagonally
Screen size (cm)	51	Measured diagonally
Dimensions (w/h/d, mm)	527 x 464 x 471	
Mass (kg)	22	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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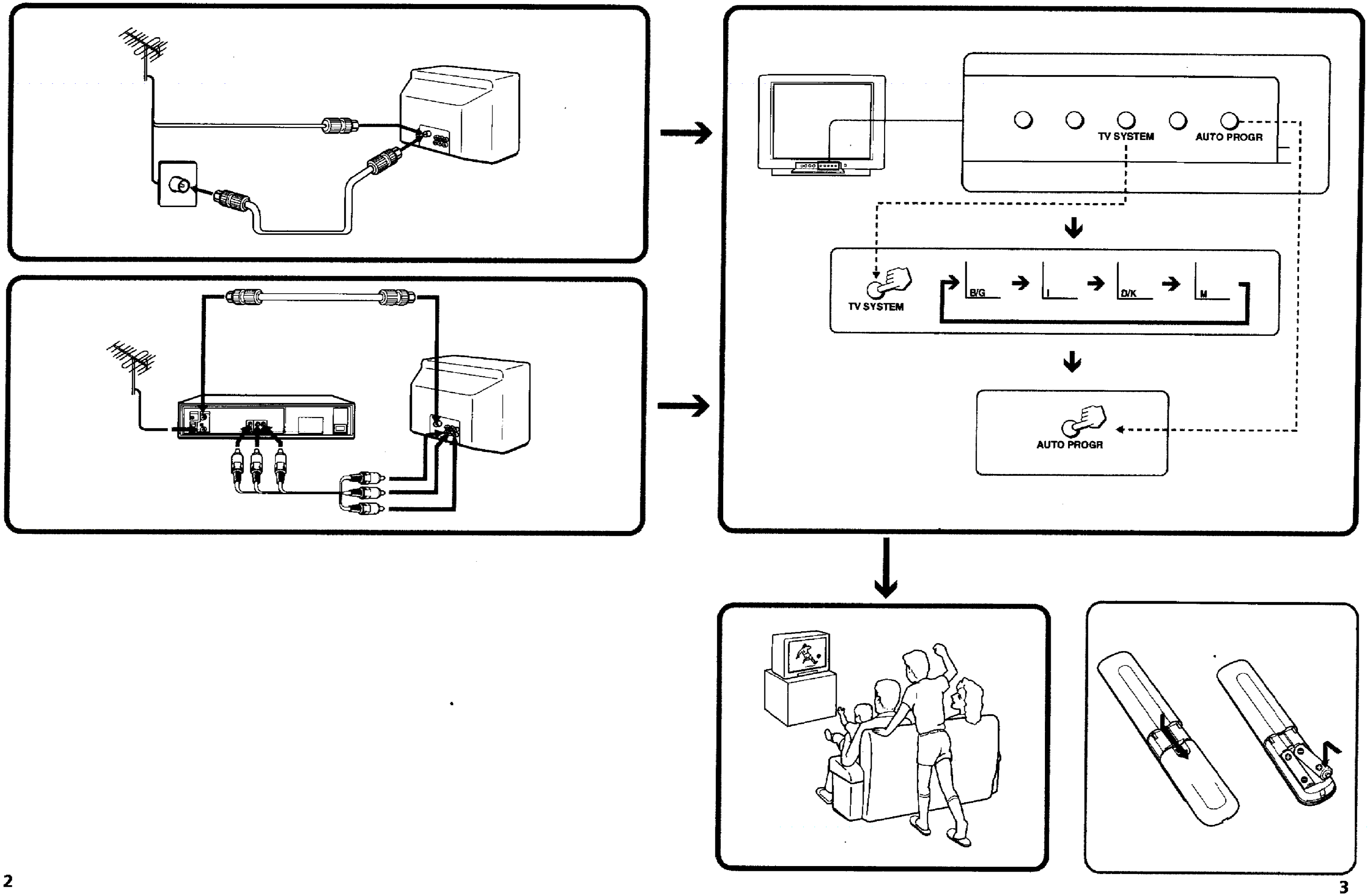
SECTION 1
GENERAL

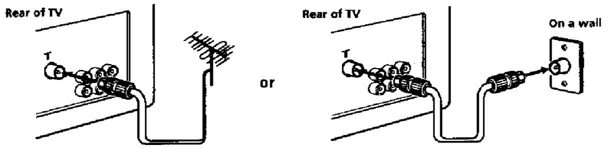
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual.


TV SYSTEM
AUTO PROGR
TV SYSTEM
B/G
I
D/K
M
AUTO PROGR

Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the ╥ (antenna) socket at the rear of the TV.

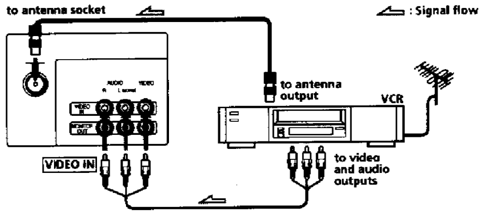

Rear of TV
T
or
Rear of TV
T
On a wall

Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

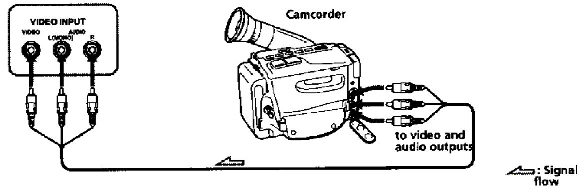
Connecting video equipment using video input jacks

Rear of TV


to antenna socket
: Signal flow
VIDEO IN
to antenna output
VCR
to video and audio outputs

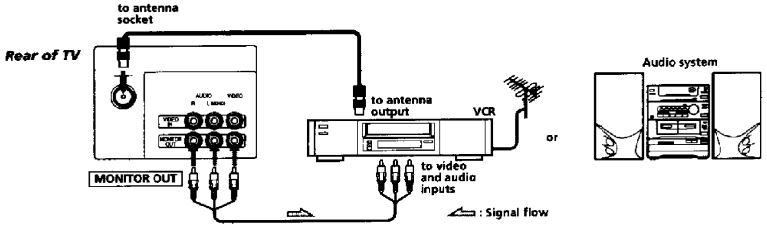
When connecting a monaural VCR
Connect the yellow plug to VIDEO and the black plug to AUDIO-L (MONO).

Front of TV


VIDEO INPUT
VIDEO
L (MONO)
AUDIO
R
Camcorder
to video and audio outputs
: Signal flow

When using the video input jacks
Do not connect video equipment to the video input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks


to antenna socket
Rear of TV
MONITOR OUT
to antenna output
VCR
to video and audio inputs
or
Audio system
: Signal flow

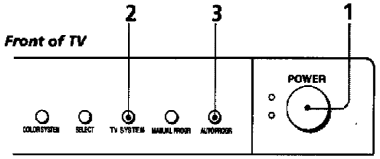
EN

When recording through the MONITOR OUT jacks
If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

Presetting channels

Presetting channels automatically

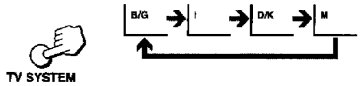
You can preset up to 80 TV channels in numerical sequence from program position 1.



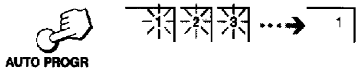
1 **Press POWER.**

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 **Press TV SYSTEM until your local TV system appears.**



3 **Press AUTO PROGR.**



To start presetting channels automatically from the specified program position

1. Press MANUAL PROGR.
2. Press TV SYSTEM to select your local TV system.
3. Press PROGR +/– to select the program position.
4. Press AUTO PROGR.

Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

1 **Press MANUAL PROGR.**

2 **Press PROGR +/– until the required program position appears on the screen.**

3 **Press TV SYSTEM until your local TV system appears.**

4 **Press VOLUME +/– on the TV until the required channel picture appears on the screen.**

5 **Press MANUAL PROGR.**

If the TV system is not properly selected
The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

1. Press PROGR +/– to select the program position.
2. Press TV SYSTEM until the picture and sound become normal.

Notes

- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/–.

1 **Press PROGR +/– until the unused or unwanted program position appears on the screen.**

2 **Press MANUAL PROGR.**

3 **Press PIC MODE on the remote commander.**

4 **Press MANUAL PROGR.**

To cancel the skip setting
Preset the channel manually or automatically again.

Operations

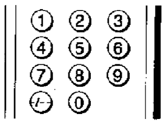
Watching the TV

1 **Press POWER to turn the TV on.**

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

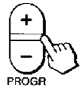
2 **Select the TV channel you want to watch.**

To select a channel directly
Press a number button.



To select a two-digit channel, press "-/--" before the number buttons.
For example: to select channel 25, press "-/--," and then "2" and "5."

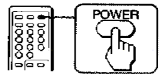
To scan through channels
Press PROGR +/– until the channel you want appears.



3 **Press VOL +/– to adjust the volume.**

Switching off the TV

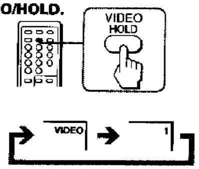
To switch off the TV temporarily, press POWER on the remote commander.



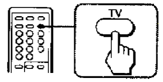
To switch off the TV completely, press POWER on the TV.
If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

Watching the video input

Press VIDEO/HOLD.

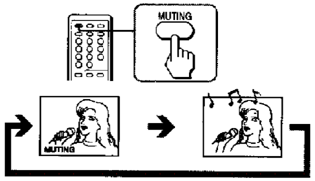


To watch TV, press TV.



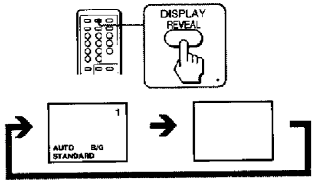
Muting the sound

Press MUTING.



Displaying on-screen information

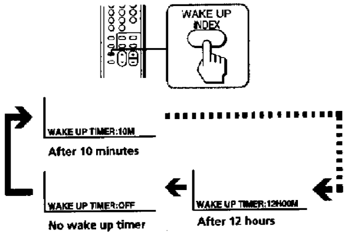
Press DISPLAY/REVEAL.
The program position, local system, and TV settings are displayed on the screen.


DISPLAY
REVEAL
1
AUTO B/G
STANDARD

Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

1 Press WAKE UP/INDEX repeatedly to set the timer.
The on-screen display appears and the WAKE UP indicator lights up.


WAKE UP
INDEX
WAKE UP TIMER:10M
After 10 minutes
WAKE UP TIMER:OFF
No wake up timer
WAKE UP TIMER:12H00M
After 12 hours

2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.

3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

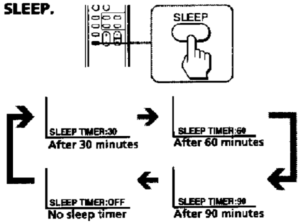
To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

Notes
- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video mode just before the TV turns into Standby mode will appear when the TV turns on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

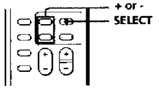
Press SLEEP.


SLEEP
SLEEP TIMER:30
After 30 minutes
SLEEP TIMER:60
After 60 minutes
SLEEP TIMER:90
After 90 minutes
SLEEP TIMER:OFF
No sleep timer

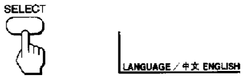
To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

Changing the on-screen display language

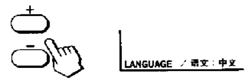
If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on both the remote commander and the TV.



1 Press SELECT until the screen appears as follows:

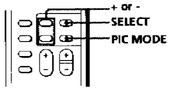

SELECT
LANGUAGE / 中文 ENGLISH

2 Press + or – to select "中文".


+
-
LANGUAGE / 語文 : 中文

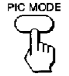
Note
- You can also use VOLUME +/– on the TV to select the on-screen display language.

Adjusting the picture

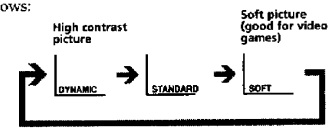

+ or -
SELECT
PIC MODE

Selecting the picture mode

Press PIC MODE until the mode you want appears.



Each time you press PIC MODE, the screen changes as follows:

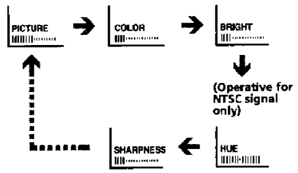

High contrast picture
Soft picture (good for video games)
DYNAMIC
STANDARD
SOFT

Note
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

Adjusting the picture setting

1 Press SELECT until the item you want to adjust appears.

Each time you press SELECT, the screen changes as follows:


PICTURE
COLOR
BRIGHT
(Operative for NTSC signal only)
HUE
SHARPNESS

2 Press +/– to adjust the item.

3 To adjust other items, repeat steps 1 and 2.

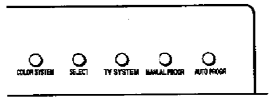
Note
- You can also use VOLUME +/– on the TV to adjust the picture setting.

If the color of the picture is abnormal
When receiving programs through the ⊤ terminal:
Press TV SYSTEM or COLOR SYSTEM or adjust the color setting until the color becomes normal.

Note
- Normally set COLOR SYSTEM to AUTO.

If the sound is distorted or noisy
When receiving programs through the ⊤ terminal:
Press TV SYSTEM until the sound becomes clear.

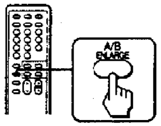
Front of TV


COLOR SYSTEM
SELECT
TV SYSTEM
MANUAL PROGR
AUTO PROGR

KV-T21MN1/T21MN11 only

Selecting a stereo or bilingual program

Press A/B/ENLARGE repeatedly until you receive the sound you want.
The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	→ NICAM (Stereo sound) → NICAM MONO (Regular sound)
NICAM bilingual	→ NICAM MAIN (Main sound) → NICAM SUB (Sub sound) → NICAM MONO (Regular sound)
NICAM monaural	→ NICAM MAIN (Main sound) → NICAM MONO (Regular sound)

When receiving a A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	STEREO (Stereo sound)
A2 (German) bilingual	→ STEREO MAIN (Main sound) → STEREO SUB (Sub sound)

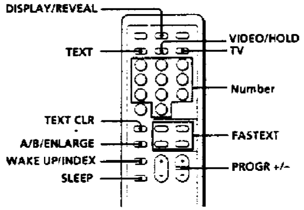
Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

Notes
- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy, select "regular sound." The sound becomes monaural, however, the noise will be reduced.

KV-T21MN11 only

Viewing Teletext



Displaying Teletext

1. Select a TV channel which carries the Teletext broadcast you want to watch.
2. Press TEXT to display the Teletext.
   A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

Superimposing a Teletext page on the TV picture

Press TEXT.
Each time you press TEXT, the screen changes as follows:

→ Teletext → Teletext and TV → TV

Checking the contents of a Teletext service (INDEX)

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.
Press the color button which corresponds to the color-coded menu.
The page is displayed after a few seconds.

Selecting a Teletext page

To input the three-digit page number of the Teletext page, press the number buttons.
If you make a mistake, key in the correct page number again.

To access the next or previous page, press PROGR +/–.

Holding a Teletext page (subpage)

Press VIDEO/HOLD.
The HOLD symbol "⊞" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

Revealing concealed information

Press DISPLAY/REVEAL.
To conceal the information, press DISPLAY/REVEAL again.

Enlarging the Teletext display

Press A/B/ENLARGE.
Each time you press A/B/ENLARGE, the Teletext display changes as follows:

→ Enlarge upper half → Enlarge lower half → Normal size

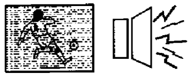
Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

1. Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
2. When the page number is displayed on the screen, press TEXT to switch the Teletext on.

Troubleshooting

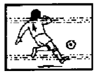
If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture
Noisy sound



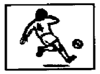
- ➡Check the antenna.
- ➡Check the antenna connection on the TV and on the wall.
- ➡Check the TV SYSTEM setting.

Dotted lines or stripes



- ➡This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

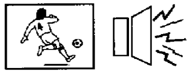
Double images or "ghosts"



- ➡This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

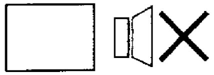
Note on the remote commander
- The supplied remote commander is used on several models of the TV. If you do not find insructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

Good picture
Noisy sound



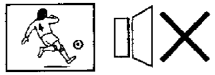
- ➡Check the TV SYSTEM setting.

No picture
No sound



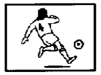
- ➡Press POWER.
- ➡Check the antenna connection.
- ➡Check the VCR connections.
- ➡Check the power cord connection.
- ➡Check the standby mode.

Good picture
No sound



- ➡Press VOLUME +.
- ➡Press MUTING.

No color

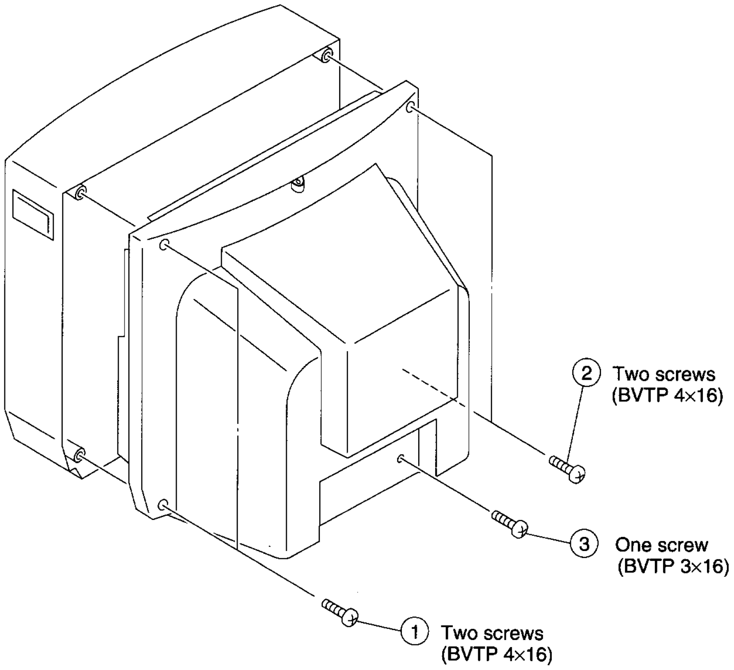


- ➡Adjust the COLOR level in the on-screen display.
- ➡Check the COLOR SYSTEM setting.

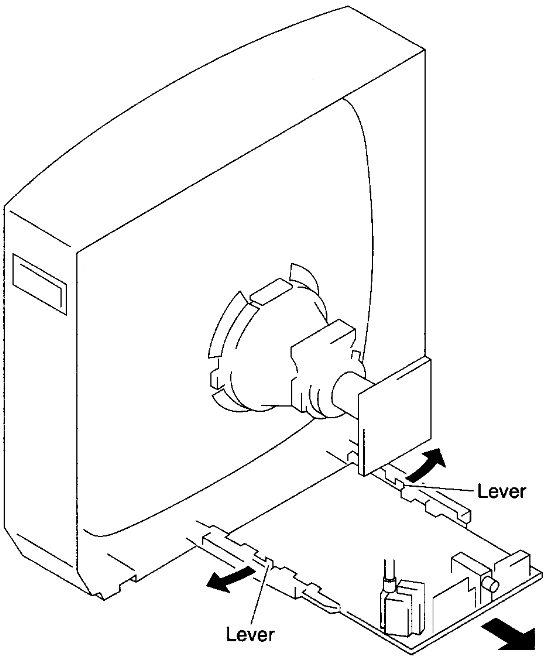
TV cabinet creaks
- ➡Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

SECTION 2
DISASSEMBLY

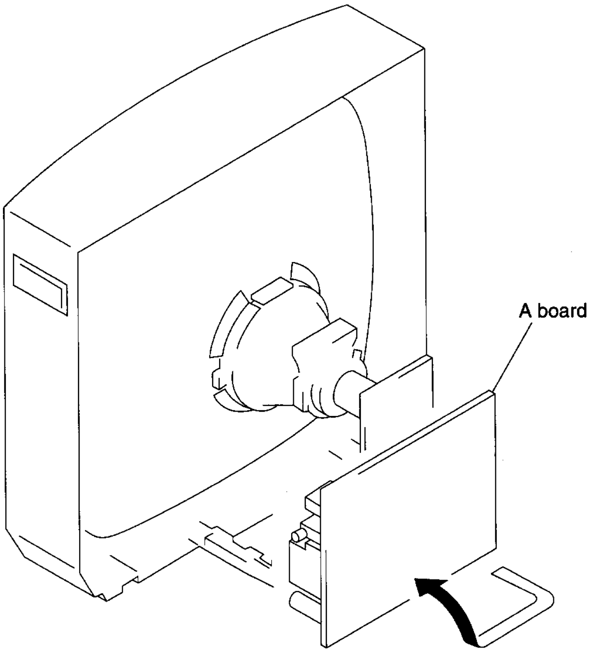
2-1. REAR COVER REMOVAL


② Two screws
(BVTP 4×16)
③ One screw
(BVTP 3×16)
① Two screws
(BVTP 4×16)

2-2. A BOARD REMOVAL


Lever
Lever

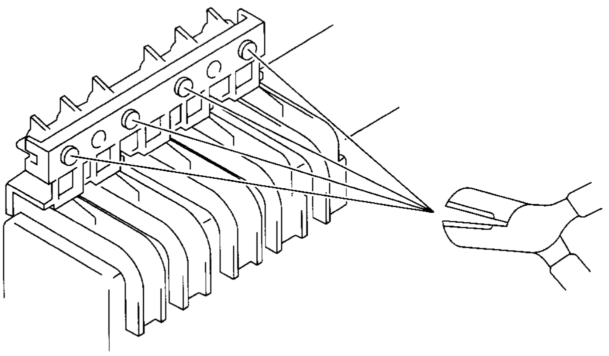
2-3. SERVICE POSITION

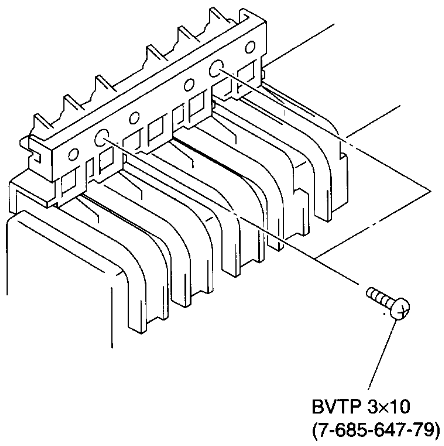


2-4. REPLACEMENT OF PARTS

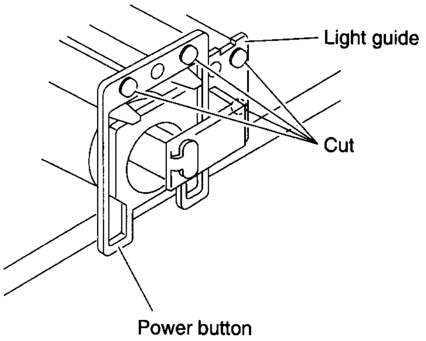
For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

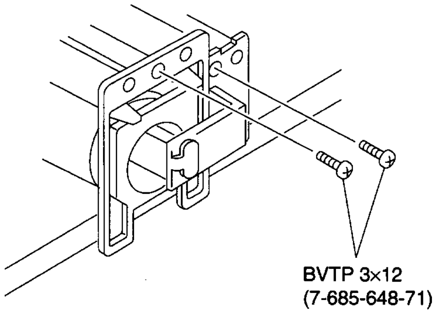
2-4-1. REPLACEMENT OF MULTI BUTTON



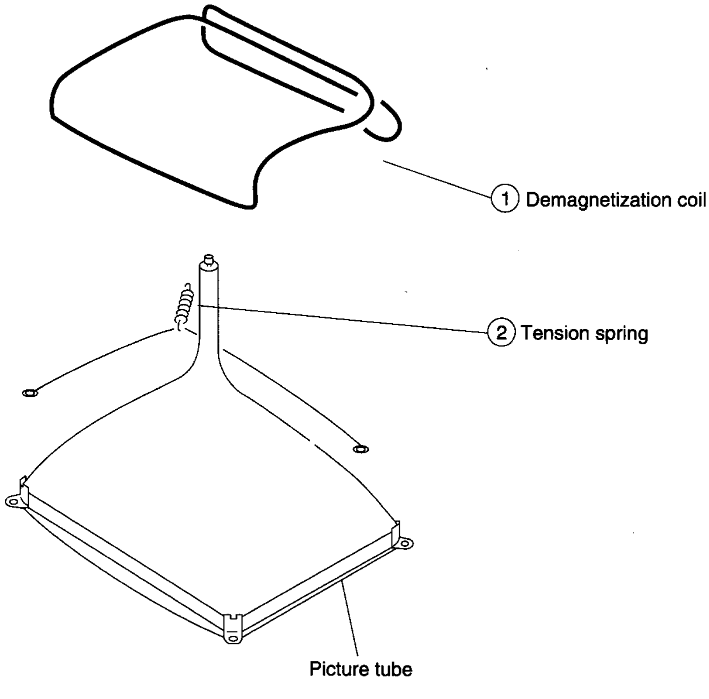


2-4-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON

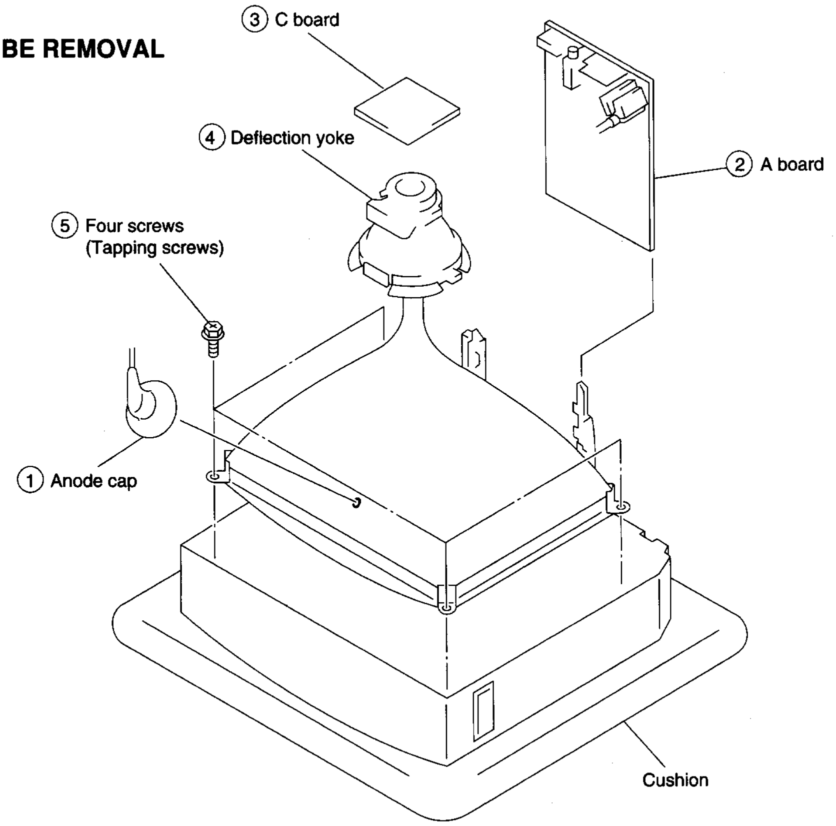

Light guide
Cut
Power button


BVTP 3×12
(7-685-648-71)

2-5. DEMAGNETIZATION COIL REMOVAL


① Demagnetization coil
② Tension spring
Picture tube

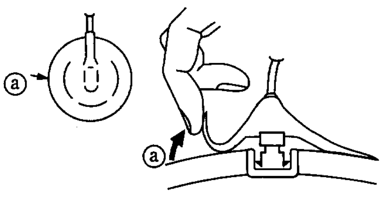
2-6. PICTURE TUBE REMOVAL



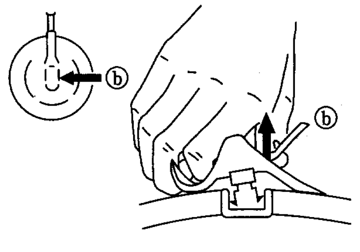
•REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

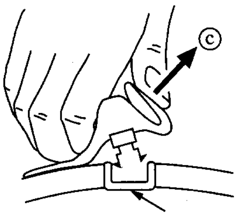
•REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ



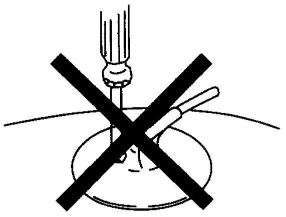
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ

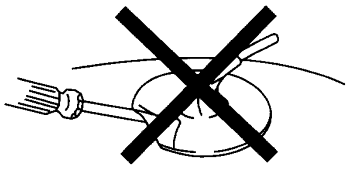
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber too hard so as not to hurt inside of anode-caps!
A material fitting called the shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:
PICTURE control .... normal
BRIGHTNESS control .... normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

……

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Brightness normal }
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-4.)

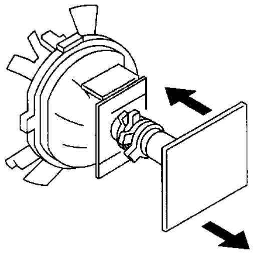


Fig. 3-1

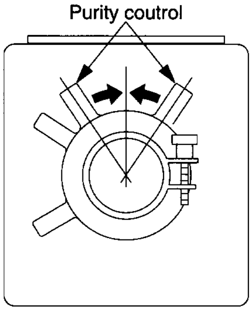

Purity coutrol

Fig. 3-2

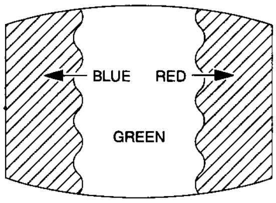

BLUE
RED
GREEN

Fig. 3-3

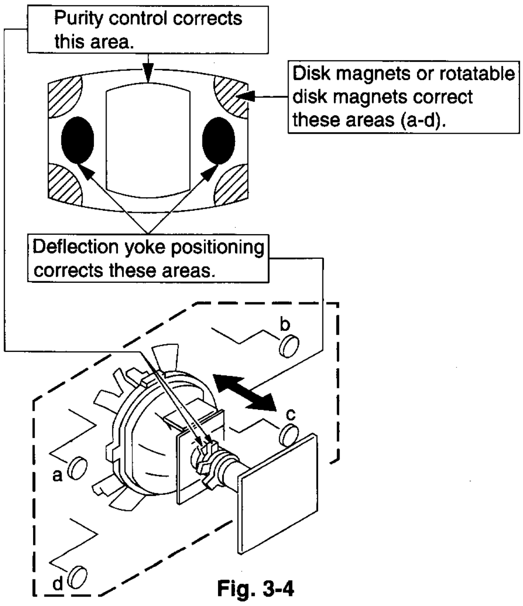

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a-d).
Deflection yoke positioning corrects these areas.
b
c
a
d

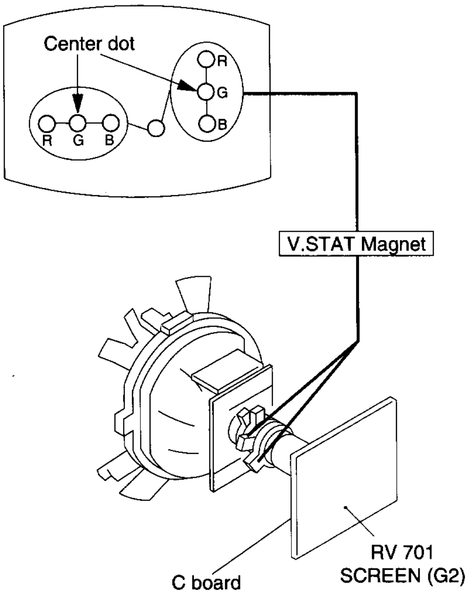
Fig. 3-4

3-2. CONVERGENCE

Preparations :

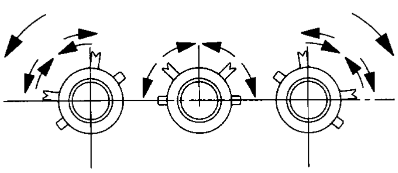
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and Vertical Static Convergence


Center dot
R
G
B
R
G
B
V.STAT Magnet
RV 701
SCREEN (G2)
C board

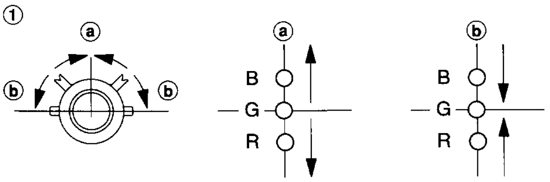
1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.

- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

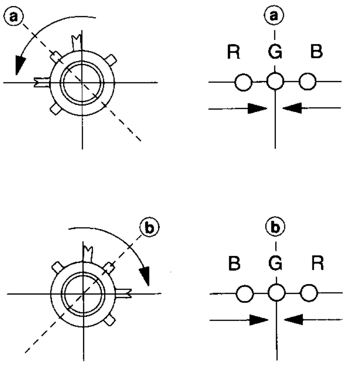


3. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

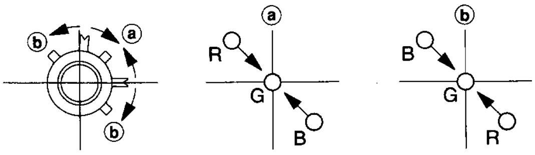
①

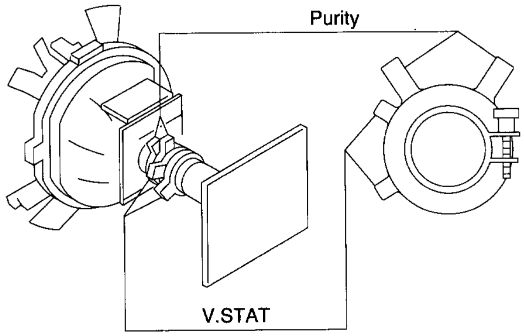


②



③



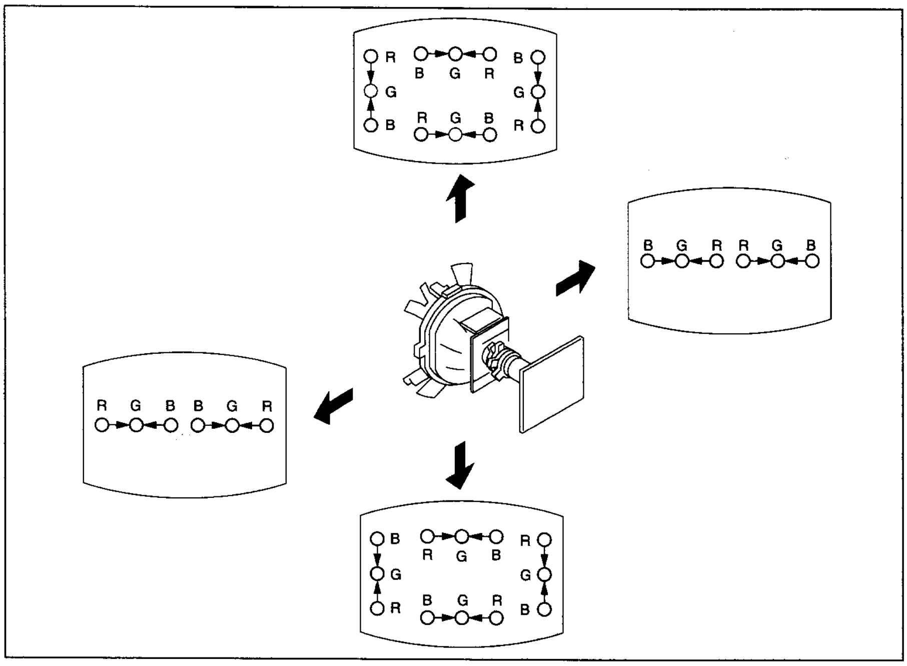

Purity
V.STAT

(2) Dynamic Convergence Adjustment

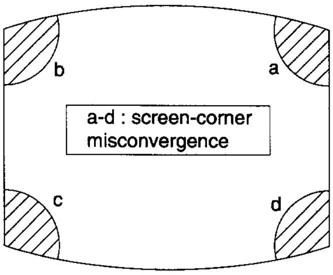
Preparations :

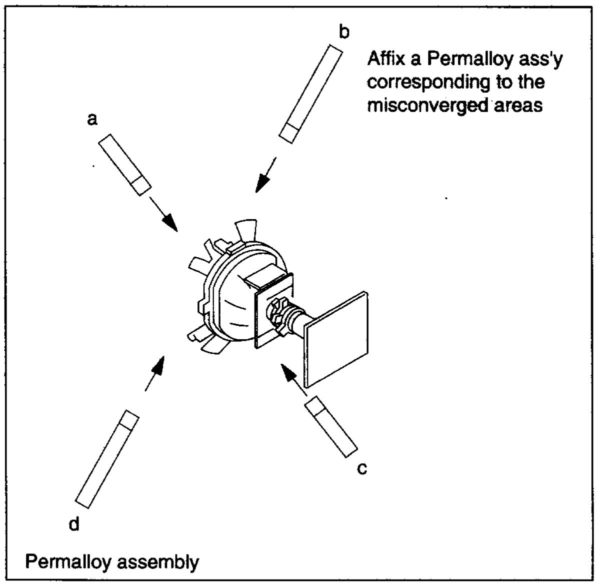
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.


R
B G R
B
G
G
B
R G B
R
B G R R G B
R G B B G R
B
R G B
R
G
G
R
B G R
B

(3) Screen-corner Convergence


b
a
a-d : screen-corner misconvergence
c
d

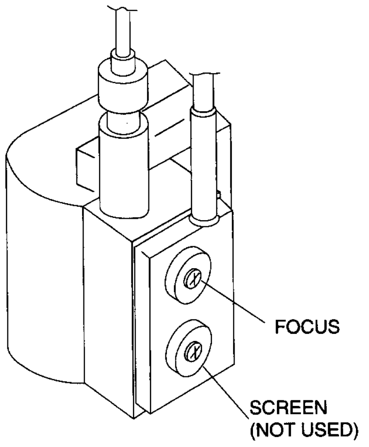


Affix a Permalloy ass'y corresponding to the misconverged areas

Permalloy assembly

3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



FLYBACK TRANSFORMER (T851)

Note: Screen VR is not use.

a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

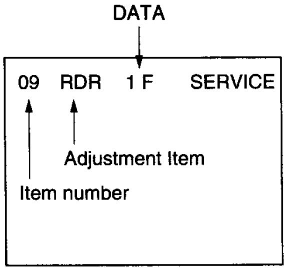
Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

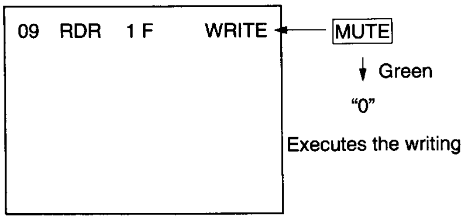
c. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
3) Press MUTE button indicate WRITE (Green) on screen.
4) Press 0 button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

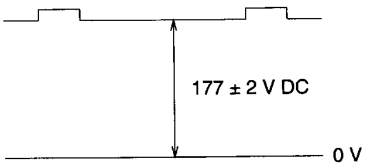




3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G, and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

1) Set the Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with 1 and 4, and then set the level to 25 with 3 and 6.
5) Select GDR(0A) and BDR(0B) with 1 and 4 and adjust the level with 3 and 6 for the best white balance.
6) Write into the memory by pressing MUTE → then 0.

SECTION 4
CIRCUIT ADJUSTMENTS

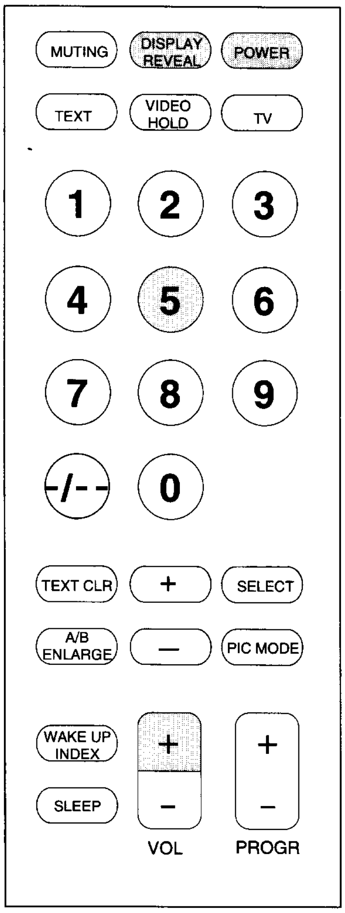
4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

Entering service mode

With the unit on standby
↓
"DISPLAY"
↓
"5"
↓
"VOL (+)"
↓
"POWER"

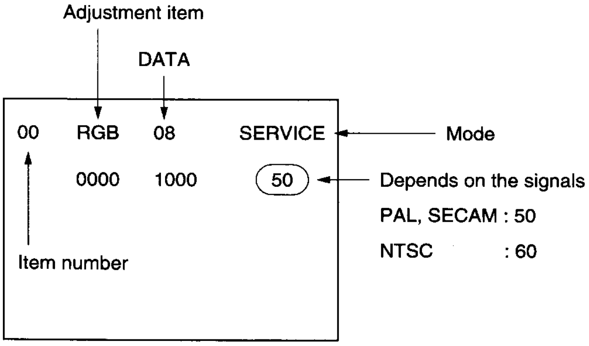
The operation sequence puts the unit into service mode.


MUTING
DISPLAY REVEAL
POWER
TEXT
VIDEO HOLD
TV
1
2
3
4
5
6
7
8
9
-/--
0
TEXT CLR
+
SELECT
A/B ENLARGE
—
PIC MODE
WAKE UP INDEX
SLEEP
+
–
VOL
+
–
PROGR

"1", "4"	Raise/lower the service item number
"3", "6"	Raise/lower the data
"MUTING"	Writes
"0"	Executes the writing

"7", "0"	The data all becomes the values in memory
"8", "0"	User control all goes to the standard state
"5", "0"	Service data initialization (Besure not to use usually.)
"2", "0"	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :


Adjustment item
DATA
00
RGB
08
SERVICE
Mode
0000
1000
50
Depends on the signals
PAL, SECAM : 50
NTSC : 60
Item number

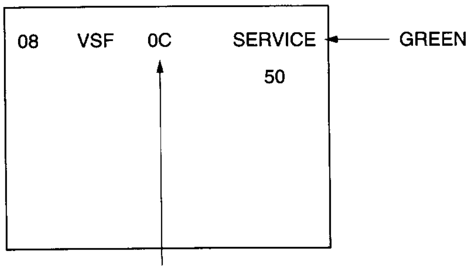
"1", "4"	Select the adjustment item.
↓	
"3", "6"	Raise/lower the data.
↓	
"MUTING"	Writes
↓	
"0"	Executes the writing.

4-2. ADJUSTMENT METHOD

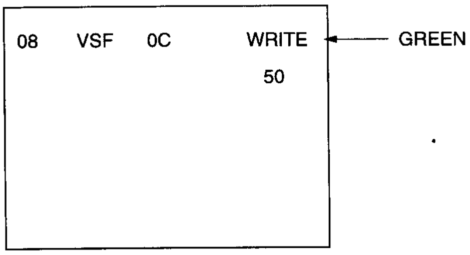
Item Number 08

This explanation uses V-SHIFT as an example.

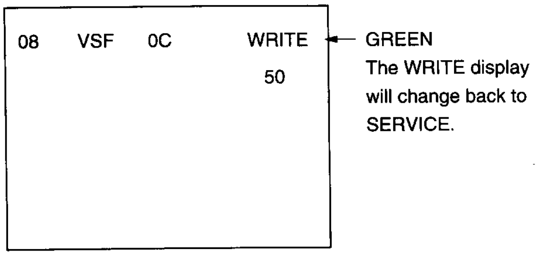
1. Select 08 V-SHIFT with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the MUTE button. (The SERVICE display will change to WRITE)
5. Execute the writing with the "0" button. (The WRITE display will change back to SERVICE.)


08
VSF
0C
SERVICE
50
GREEN

Adjusted with "3" and "6" buttons


08
VSF
0C
WRITE
50
GREEN

Written with "MUTE"


08
VSF
0C
WRITE
50
GREEN
The WRITE display will change back to SERVICE.

Write executed with "0"

Use the same method for Items Number 00-42. Use "1" and "4" to select the adjustment item, use "3" and "6" to adjust, write with "MUTE", then execute the write with "0".

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
00	HSF	00–3F	24	50: 60:	H SHIFT	(TDA8366)
01	HSZ	00–3F	23	50: 60:	H SIZE	(TDA8366)
02	PAP	00–3F	21	50: 60:	PIN AMPLITUDE	(TDA8366)
03	CNP	00–3F	29	50: 60:	CORNER PIN	(TDA8366)
04	TLT	00–3F	20	50: 60:	TILT	(TDA8366)
05	VSL	00–3F	20	50: 60:	V SLOPE	(TDA8366)
06	VAP	00–3F	1D	50: 0F 60: 0F	V AMPLITUDE	(TDA8366)
07	SCR	00–3F	20	50: 60:	S CORRECTION	(TDA8366)
08	VSF	00–3F	20	50: 60:	V SHIFT	(TDA8366)
09	RDR	00–3F	25	2A	WHITE POINT R	(TDA8366)
0A	GDR	00–3F	20	25	WHITE POINT G	(TDA8366)
0B	BDR	00–3F	20	25	WHITE POINT B	(TDA8366)
0C	YDL	00–0F	00		Y DELAY ADJUSTMENT	(TDA8366)
0D	FO	00–02	00	TV: 00 VIDEO: 00 TEXT: 01	PHI-1TIME CONSTANT	(TDA8366)
0E	AGC	00–3F	06	TV: VIDEO:	AGC TAKE OVER	(TDA8366)
0F	VSW	00–01	00	TV: 00 VIDEO: 01	VIDEO MUTE	(TDA8366)
10	FOR	00–03	00		FORCED FIELD FREQ.	(TDA8366)
11	DL	00–01	00		INTERLACE	(TDA8366)
12	POC	00–01	00		SYNCHRONISATION	(TDA8366)
13	NCI	00–01	00	50: 00 60: 00	V DIVIDER MODE	(TDA8366)
14	VID	00–01	00	50: 00 60: 00	VIDEO IDENT MODE	(TDA8366)
15	HCO	00–01	00	50: 00 60: 00	EHT TRACKING MODE	(TDA8366)
16	EVG	00–01	00	50: 00 60: 00	ENABLE V GUARD	(TDA8366)
17	SBL	00–01	00	50: 00 60: 00	SERVICE BLANKING	(TDA8366)
18	PRD	00–01	00	50: 00 60: 00	OVER-VOLTAGE INPUT	(TDA8366)
19	EXP	00–03	00		V DEFLECTION MODE	(TDA8366)
1A	SFM	00–01	01		H FREQ. DURING SWON	(TDA8366)
1B	PHL	00–01	00		COLOR X-TAL PLL	(TDA8366)
1C	COR	00–01	00		NOISE CORING PEAK	(TDA8366)
1D	PMX	00–3F	2D	33	PICTURE MAX DATA	(TDA8366)
1E	SBR	00–7F	4B		SUB-BRIGHTNESS	(TDA8366)
1F	SHU	00–0F	07		SUB-HUE	(TDA8366)
20	SSH	00–03	01	TV: 01 VIDEO: 03	SUB-SHARPNESS	(TDA8366)
21	SCL	00–3F	3F	50: 60:	SUB-COLOR	(TDA8366)

For KV-T21MF1 only

22	TXP	00–0F	0A	09	Text Picture cont.	(SAA5281)
23	MXP	00–0F	0B	0D	Text Mix mode Pic.	(SAA5281)
24	BKP	00–3F	00		Blk off Picture	(CXP85200)
25	ODL	00–FF	10		Power ON Delay	(CXP85200)
26	OFR	00–0F	00		Remo. con. RGB OUT	(CXP85200)
27	OFM	00–0F	00		Main power RGB OUT	(CXP85200)
28	OSH	00–3F	0A		OSD Position H	(CXP85200)
29	MUT	00–01	01		No Sync. Mute	(CXP85200)
2A	ABL	00–01	01		Bright ABL	(CXP85200)
2B	OP0	00–FF	40		Option 0	(CXP85200)
2C	OP1	00–FF	07		Option 1	(CXP85200)

※ 50 ··· 50Hz data 60 ··· 60Hz data

※ Standard data listed on the Adjustment Item Table are reference values, therefore differ per model.

For KV-T21MN1/T21MN11 only

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
22	FAW	00–FF	08		NICAM FAW Thresh	(MSP3410)
23	CTM	00–FF	08		NICAM Error Bit (MONO)	(MSP3410)
24	CTN	00–FF	50		NICAM Error Bit (NICAM)	(MSP3410)
25	WCD	00–FF	0A		W. G. Change data	(MSP3410)
26	WST	00–FF	15		W. G. Stereo Cut Point	(MSP3410)
27	WTM	00–FF	50		W. G. Timer Change	(MSP3410)
28	WBT	00–FF	EA		W. G. BILINGUAL Cut Point	(MSP3410)
29	ACG	00–01	01		AGC AUTO/CONST.	(MSP3410)
2A	CDB	00–7F	50		AGC GAIN CONST.	(MSP3410)
2B	FGP	00–7F	24		FM (BG, I, DK) Prescale	(MSP3410)
2C	FMP	00–7F	40		FM (M) Prescale	(MSP3410)
2D	WGP	00–7F	3C		W. G. Prescale	(MSP3410)
2E	NIP	00–7F	7F		NICAM Prescale	(MSP3410)
2F	CRM	00–01	00		Carrier Mute	(MSP3410)
30	ACO	00–01	01		Audio Clock Out	(MSP3410)
31	WAC	00–0F	01		W. G. Agreement Count	(MSP3410)
32	TXP	00–0F	0A		Text Picture cont.	(SAA5281)
33	MXP	00–0F	0B		Text Mix mode Pic.	(SAA5281)
34	BKP	00–3F	00		Blk Off Picture	(CXP85200)
35	HBL	00–3F	25		H Blk Left Width	(CXP85200)
36	HBR	00–3F	20		H Blk Right Width	(CXP85200)
37	VBH	00–7F	00		V Blk High Width	(CXP85200)
38	VBL	00–FF	FF		V Blk Low Width	(CXP85200)
39	ODL	00–FF	10		Power ON Delay	(CXP85200)
3A	OFR	00–0F	00		Remo. con. RGB OUT	(CXP85200)
3B	OFM	00–0F	00		Main power RGB OUT	(CXP85200)
3C	OSH	00–3F	0A		OSD Position H	(CXP85200)
3D	DKS	00–01	00		D/K STEREO Search	(CXP85200)
3E	MUT	00–01	01		No Sync. Mute	(CXP85200)
3F	DWZ	00–01	00		Disable Widezoom	(CXP85200)
40	ABL	00–01	01		Bright ABL	(CXP85200)
41	OP0	00–FF	40		Option 0	(CXP85200)
42	OP1	00–FF	07		Option 1	(CXP85200)

No 2B, 41 OP0 * Input data are different according to models.

Item	–	AV Input		–	–	–	–	Saudi
KV-T21MF1	0	1	0	0	0	0	0	0
KV-T21MN1	0	1	0	0	0	0	0	0
KV-T21MN11	0	1	0	0	0	0	0	0

No 2C, 42 OP1

Item	–	–	–	TV System		NTSC	SECAM	Chin
KV-T21MF1	0	0	0	0	0	1	1	1
KV-T21MN1	1	0	0	0	0	1	1	1
KV-T21MN11	1	0	0	0	0	1	1	1

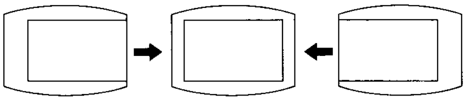
4-3. A BOARD, ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons “5” and “0” (Data Initialize), and “2” and “0” (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number (MUTE + 0).
4. Select item numbers “2B” (OP0) and “2C” (OP1) for mono, and 41 (OP0) and “42” (OP1) for STEREO, and respectively set the bit per model with command buttons “3” and “6”.
5. Press commander buttons “8” and “0” (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

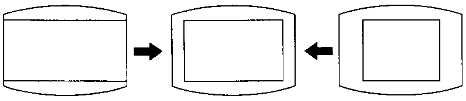
4-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

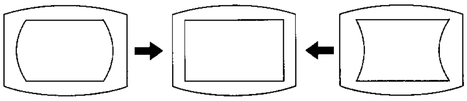
00 HSF (H. SHIFT)



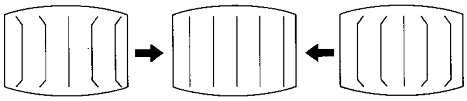
01 HSZ (H SIZE)



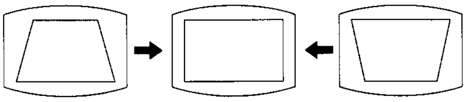
02 PAP (PIN AMP)



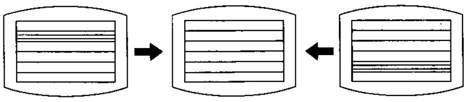
03 CNP (CORNER PIN)



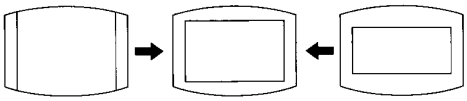
04 TLT (TILT)



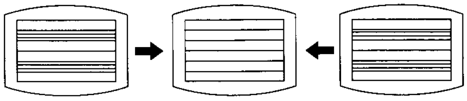
05 VSL (V SLOP)

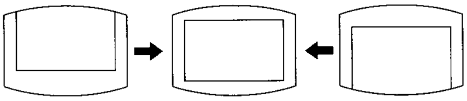


06 VAP (V AMP)



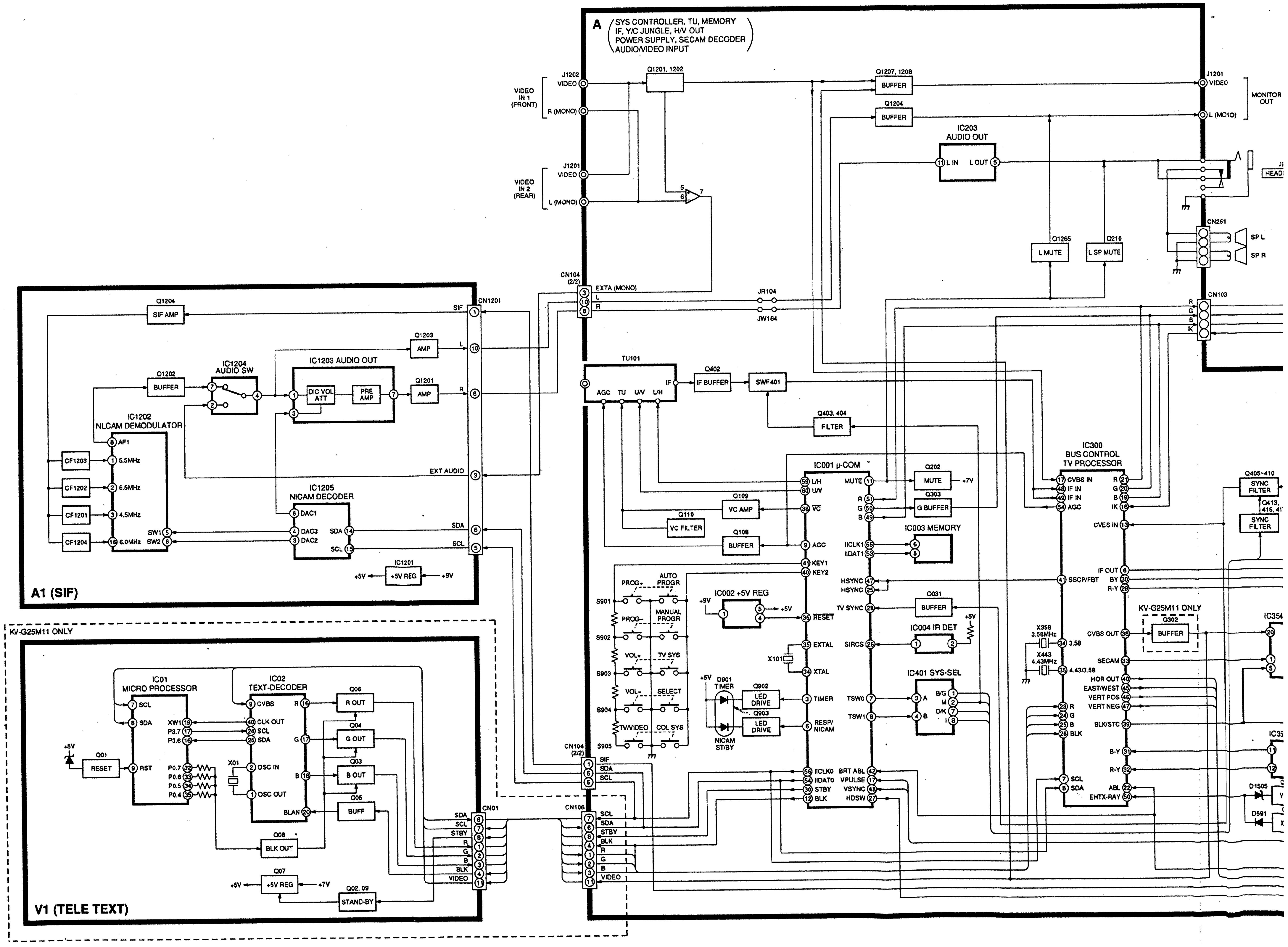
07 SCR (S CORRECTION)

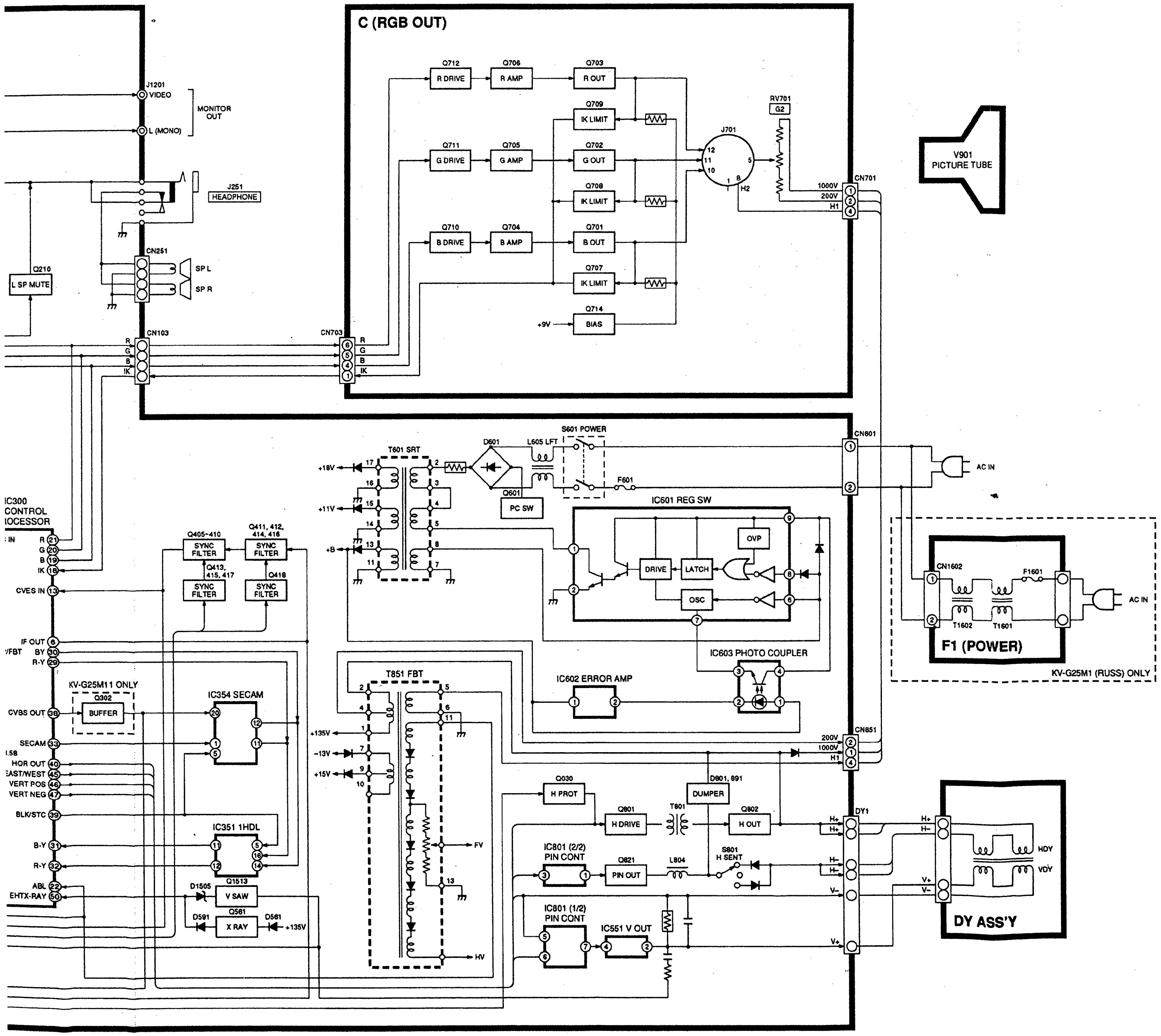




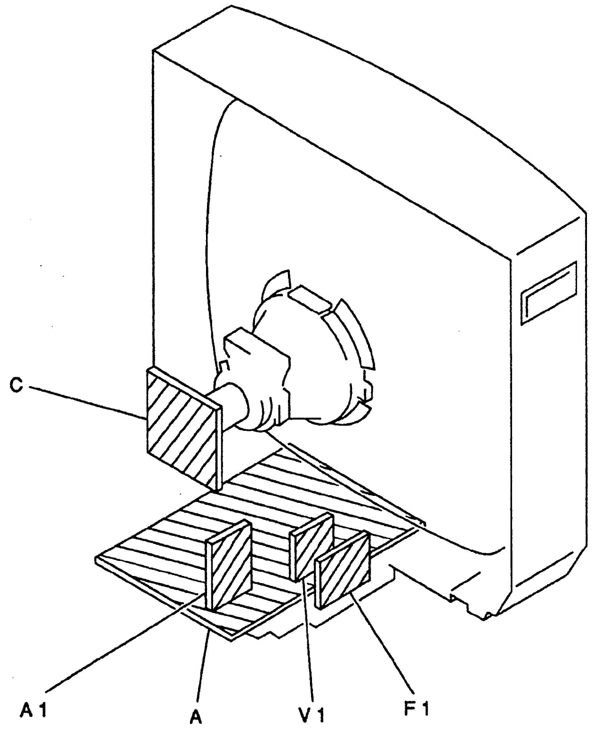
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS


A1 (SIF)
Q1204
SIF AMP
Q1202
BUFFER
IC1204
AUDIO SW
IC1203 AUDIO OUT
DIC VOL ATT
PRE AMP
Q1203
AMP
Q1201
AMP
IC1202
NLCAM DEMODULATOR
AF1
CF1203
5.5MHz
CF1202
6.5MHz
CF1201
4.5MHz
CF1204
6.0MHz
SW1
SW2
IC1205
NICAM DECODER
DAC1
DAC3
DAC2
SDA
SCL
IC1201
+5V REG
+5V
+9V
CN1201
SIF
L
R
EXT AUDIO
KV-G25M11 ONLY
V1 (TELE TEXT)
IC01
MICRO PROCESSOR
SCL
SDA
RST
XW1
P3.7
P3.6
P0.7
P0.6
P0.5
P0.4
Q01
RESET
+5V
IC02
TEXT-DECODER
CVBS
CLK OUT
OSC IN
OSC OUT
BLAN
X01
Q06
R OUT
Q04
G OUT
Q03
B OUT
Q05
BUFF
Q08
BLK OUT
Q07
+5V REG
+7V
Q02, 09
STAND-BY
CN01
STBY
BLK
VIDEO
A
SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT
VIDEO IN 1 (FRONT)
J1202
VIDEO
R (MONO)
VIDEO IN 2 (REAR)
J1201
L (MONO)
Q1201, 1202
Q1207, 1208
BUFFER
Q1204
BUFFER
MONITOR OUT
IC203
AUDIO OUT
L IN
L OUT
Q1265
L MUTE
Q210
L SP MUTE
CN251
SP L
SP R
CN103
IK
CN104 (2/2)
EXTA (MONO)
JR104
JW164
TU101
AGC
TU
U/V
L/H
IF
Q402
IF BUFFER
SWF401
Q403, 404
FILTER
IC001 μ-COM
MUTE
KEY1
KEY2
RESET
EXTAL
XTAL
TIMER
RESP/ NICAM
IICLK0
IIDAT0
HSYNC
TV SYNC
SIRCS
TSW0
TSW1
BRT ABL
VPULSE
VSYNC
HDSW
IICLK1
IIDAT1
Q202
MUTE
Q303
G BUFFER
IC003 MEMORY
Q109
VC AMP
Q110
VC FILTER
Q108
BUFFER
PROG+
AUTO PROGR
PROG–
MANUAL PROGR
VOL+
TV SYS
VOL–
SELECT
TV/VIDEO
COL SYS
S901
S902
S903
S904
S905
IC002 +5V REG
X101
D901
TIMER
Q902
LED DRIVE
Q903
LED DRIVE
NICAM ST/BY
Q031
BUFFER
IC004 IR DET
IC401 SYS-SEL
B/G
M
D/K
I
CN106
IC300
BUS CONTROL
TV PROCESSOR
CVBS IN
IF IN
SSCP/FBT
CVES IN
IF OUT
BY
R-Y
B-Y
CVBS OUT
SECAM
HOR OUT
EAST/WEST
VERT POS
VERT NEG
BLK/STC
ABL
EHTX-RAY
X358
3.58MHz
X443
4.43MHz
4.43/3.58
Q405~410
SYNC FILTER
Q413, 415
Q302
BUFFER
IC354
D1505
D591


C (RGB OUT)
Q712 R DRIVE
Q706 R AMP
Q703 R OUT
Q709 IK LIMIT
Q711 G DRIVE
Q705 G AMP
Q702 G OUT
Q708 IK LIMIT
Q710 B DRIVE
Q704 B AMP
Q701 B OUT
Q707 IK LIMIT
Q714 BIAS
+9V
J701
RV701 G2
1000V
200V
H1
H2
CN701
V901 PICTURE TUBE
J1201 VIDEO
L (MONO)
MONITOR OUT
J251 HEADPHONE
CN251
SP L
SP R
Q210 L SP MUTE
CN103
CN703
R G B IK
IC300 CONTROL PROCESSOR
CVES IN
IF OUT
VFBT BY
R-Y
CVBS OUT
SECAM
HOR OUT
EAST/WEST
VERT POS
VERT NEG
BLK/STC
B-Y
R-Y
ABL
EHTX-RAY
Q405~410 SYNC FILTER
Q411, 412, 414, 416 SYNC FILTER
Q413, 415, 417 SYNC FILTER
Q418 SYNC FILTER
KV-G25M11 ONLY
Q302 BUFFER
IC354 SECAM
IC351 1HDL
D1505
Q1513 V SAW
D591
Q561 X RAY
D561 +135V
T601 SRT
+18V
+11V
+B
D601
L605 LFT
S601 POWER
F601
Q601 PC SW
IC601 REG SW
OVP
DRIVE
LATCH
OSC
CN601
AC IN
IC603 PHOTO COUPLER
IC602 ERROR AMP
T851 FBT
+135V
-13V
+15V
FV
HV
CN851
200V
1000V
H1
Q030 H PROT
D801, 891 DUMPER
Q801 H DRIVE
T801
Q802 H OUT
IC801 (2/2) PIN CONT
Q821 PIN OUT
L804
S801 H SENT
IC801 (1/2) PIN CONT
IC561 V OUT
DY1
H+ H- V+ V-
HDY
VDY
DY ASS'Y
CN1602
F1601
T1602
T1601
AC IN
F1 (POWER)
KV-G25M1 (RUSS) ONLY

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  kΩ = 100Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4W (CHIP: 1/10W)

- -RW- : nonflammable resistor.
- △ : internal component.
- ☐ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  (   ) : SECAM
  ⟨   ⟩ : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- ∗ : Can not be measured.
- Circled numbers are waveform reference.
- —— : B + bus.
- - - - : B – bus.
- ➡ : signal path.

Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

PRINTED WIRING BOARD

A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

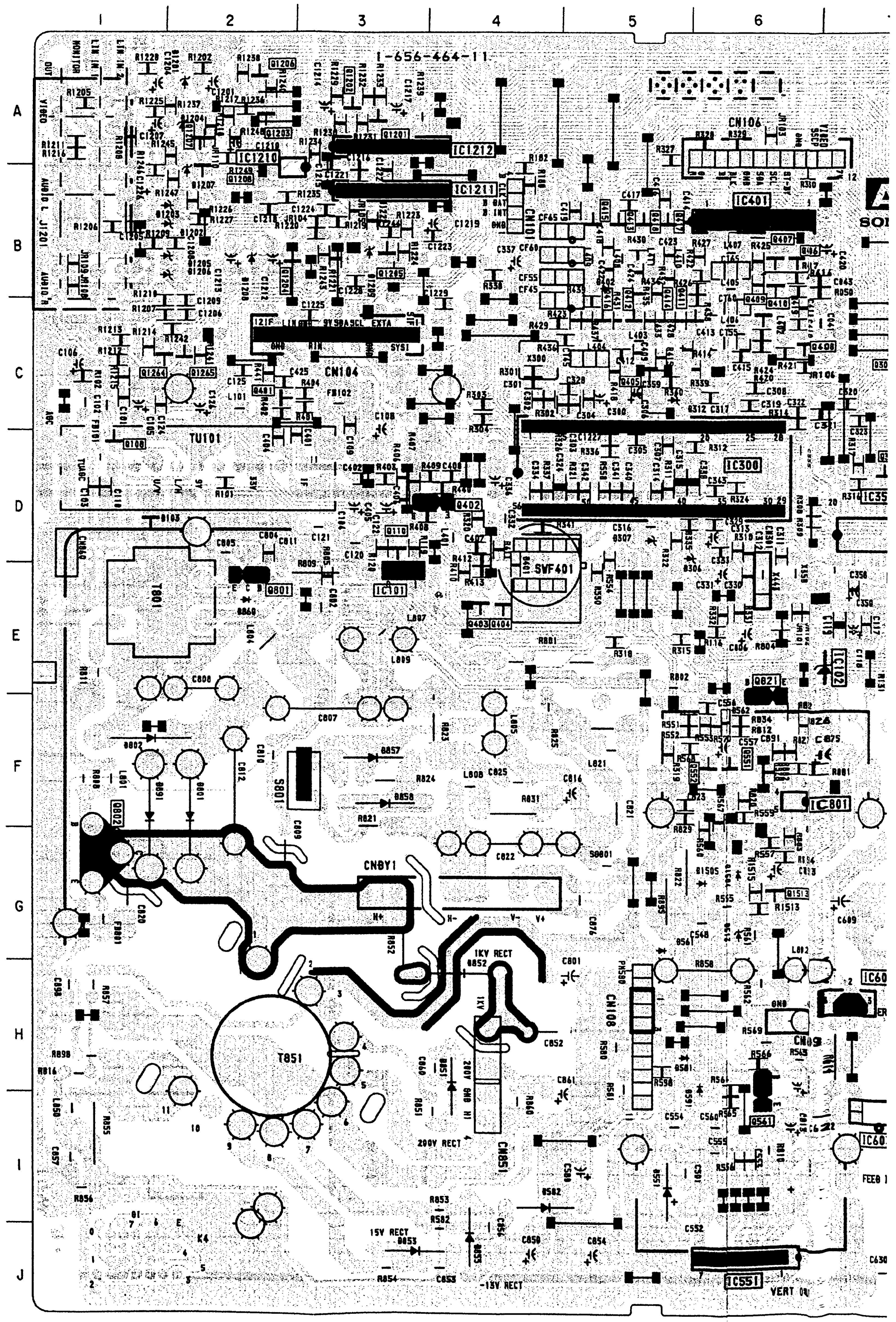
A BOARD

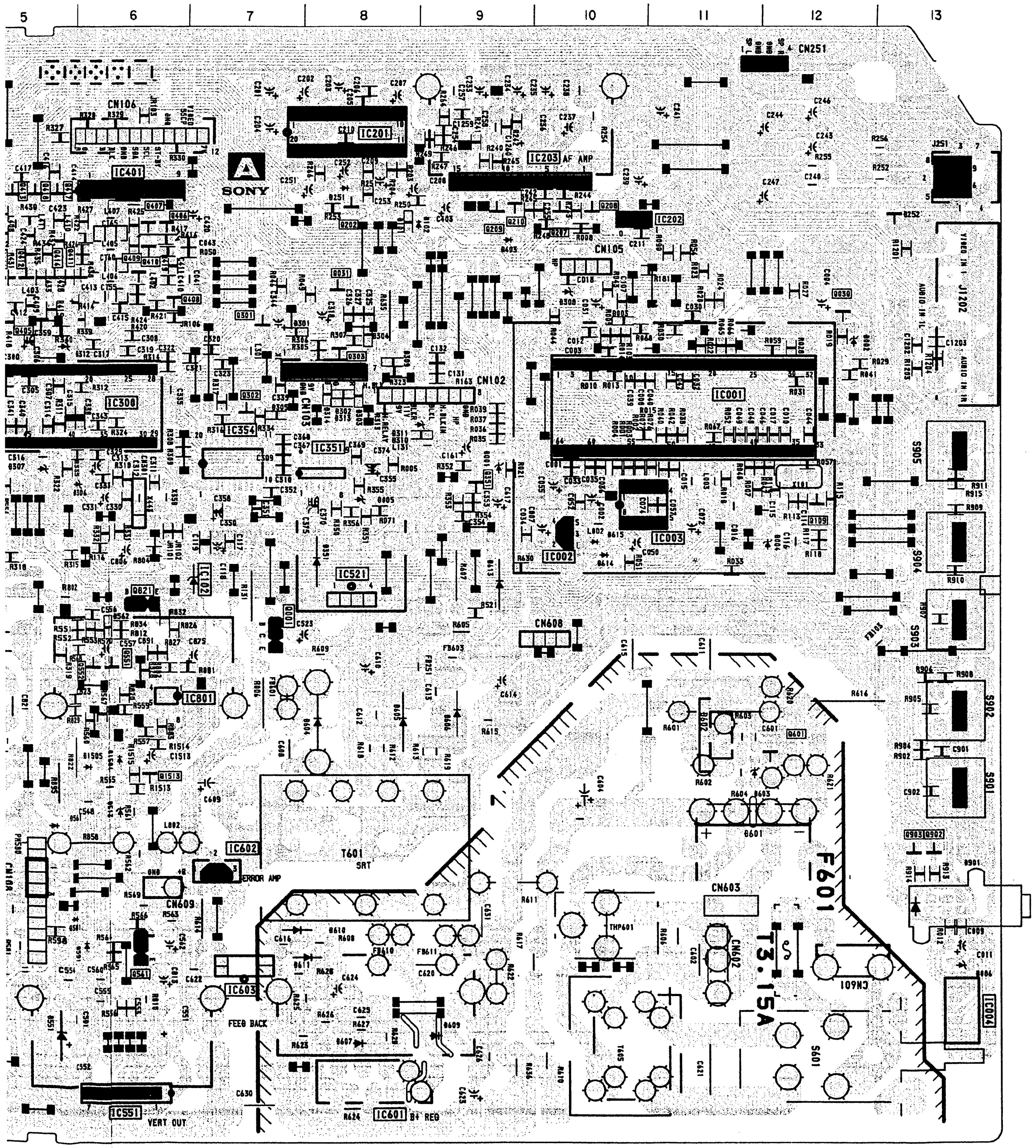
IC	
IC001	D-11
IC002	E-10
IC003	E-11
IC004	I-13
IC102	E-7
IC203	B-10
IC300	D-6
IC351	D-8
IC354	D-7
IC401	B-6
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	I-7
IC801	F-6
IC1210	A-2

TRANSISTOR	
Q030	C-12
Q031	C-8
Q108	D-1
Q109	E-12
Q110	D-3
Q202	B-8
Q207	B-10
Q208	B-10
Q210	B-9
Q301	C-7
Q302	D-7
Q303	C-8
Q402	D-4
Q403	E-4
Q404	E-4
Q405	C-5
Q406	B-6
Q407	B-6
Q408	C-6
Q409	C-6
Q410	B-6
Q411	C-6
Q412	C-5
Q413	B-5
Q414	C-5
Q415	B-5
Q416	C-5
Q417	B-5
Q418	B-5
Q561	I-6
Q601	G-12
Q801	E-2
Q802	G-1
Q821	E-6
Q902	H-13
Q903	H-13
Q1201	A-3
Q1202	A-3
Q1203	A-2
Q1204	B-2
Q1207	A-2
Q1208	B-2
Q1265	C-2
Q1513	G-6

DIODE	
D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D101	B-8
D102	B-9
D103	D-1
D251	B-8
D252	B-13
D301	C-7
D302	D-8
D303	D-8
D304	C-8
D305	D-7
D306	D-6
D307	D-5
D308	C-10
D310	D-8
D311	D-8
D312	C-5
D313	D-8
D314	D-8
D351	E-8
D401	D-4
D402	B-5
D403	B-9
D513	G-6
D551	I-5
D561	G-5
D591	H-6
D601	G-11
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	F-9
D607	I-8
D609	I-9
D610	H-7
D611	I-8
D801	F-2
D802	F-1
D851	H-4
D852	H-4
D853	J-3
D855	J-4
D857	F-3
D858	F-3
D860	E-2
D891	F-1
D901	H-13
D1201	A-2
D1202	B-2
D1207	B-2
D1208	B-2
D1504	G-6
D1505	G-6

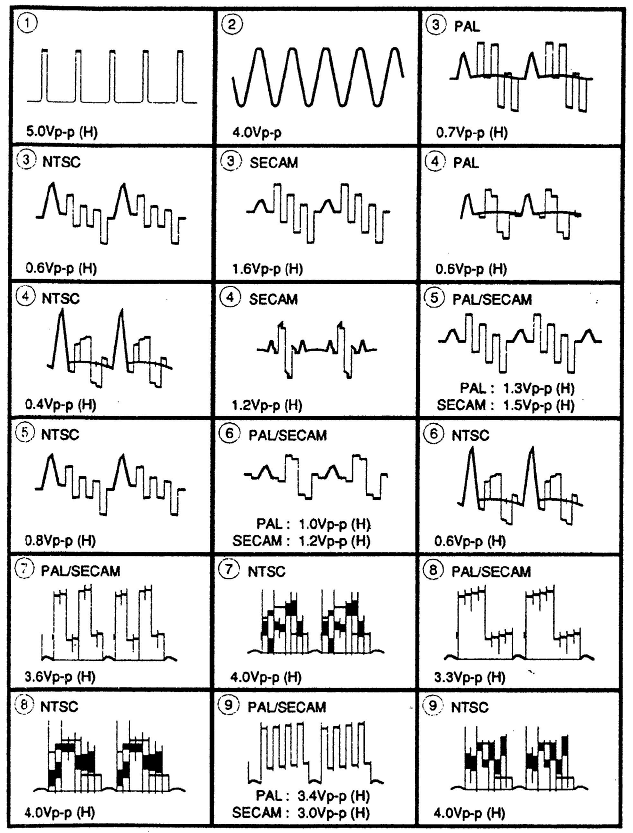
– A Board –

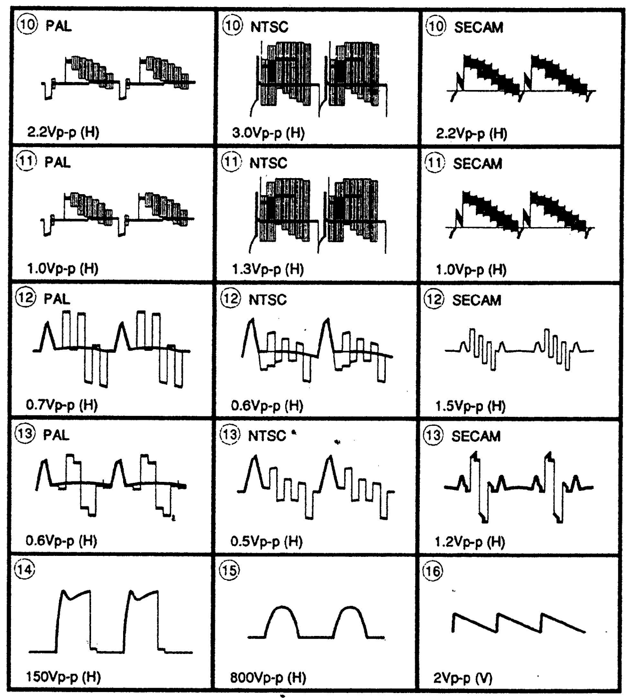


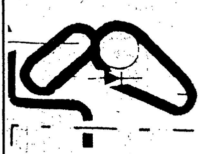


5
6
7
8
9
10
11
12
13
CN251
CN106
IC401
IC201
A
SONY
IC203 AF AMP
IC202
CN105
J251
J1202
CN102
IC300
IC354
IC351
IC001
IC521
IC003
IC002
IC102
CN608
IC801
S905
S904
S903
S902
S901
T601
SRT
IC602
ERROR AMP
CN609
F601
T3.15A
CN603
CN602
CN401
IC603
FEED BACK
IC551
VERT OUT
IC601
B+ REG
IC004

A BOARD WAVEFORMS

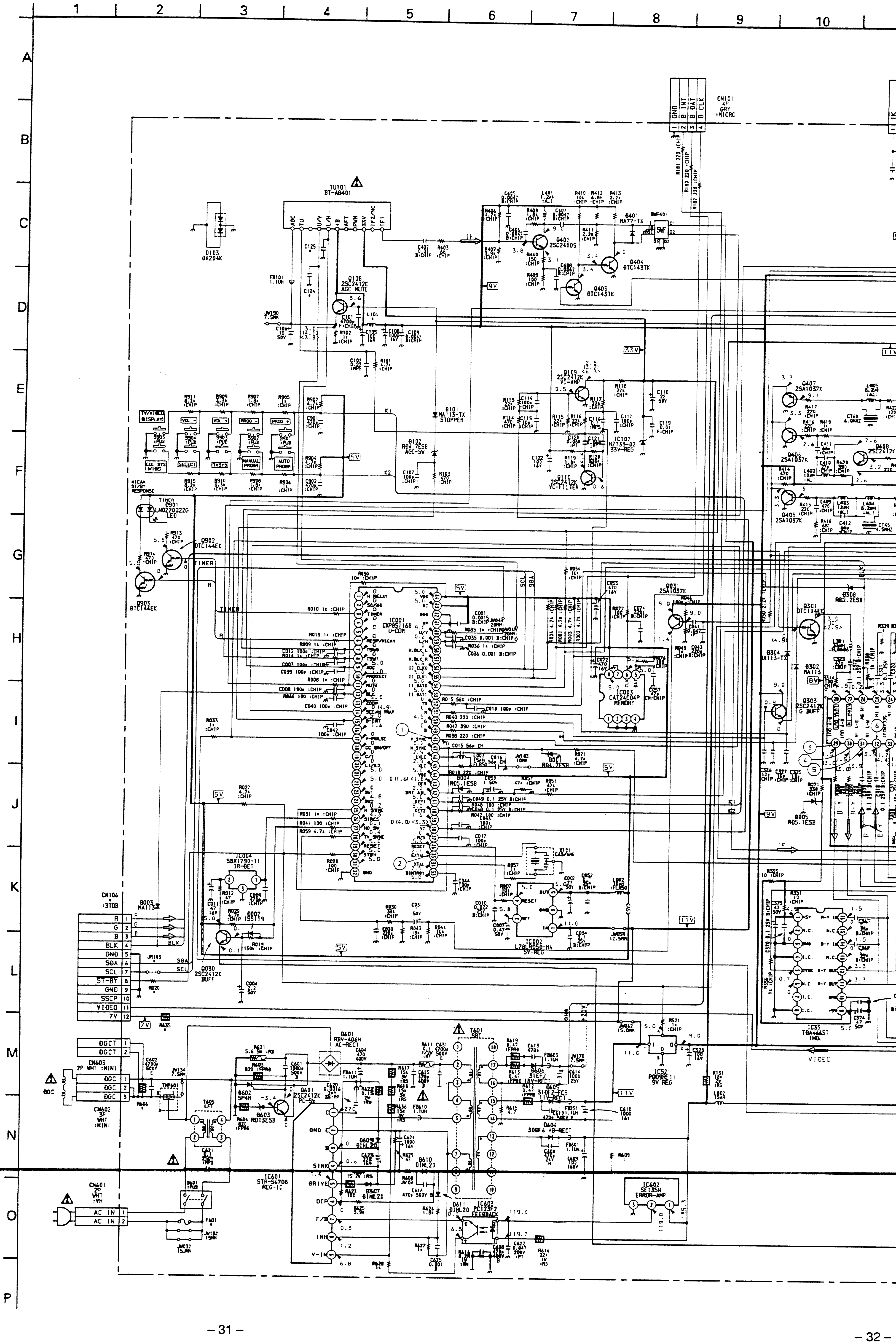


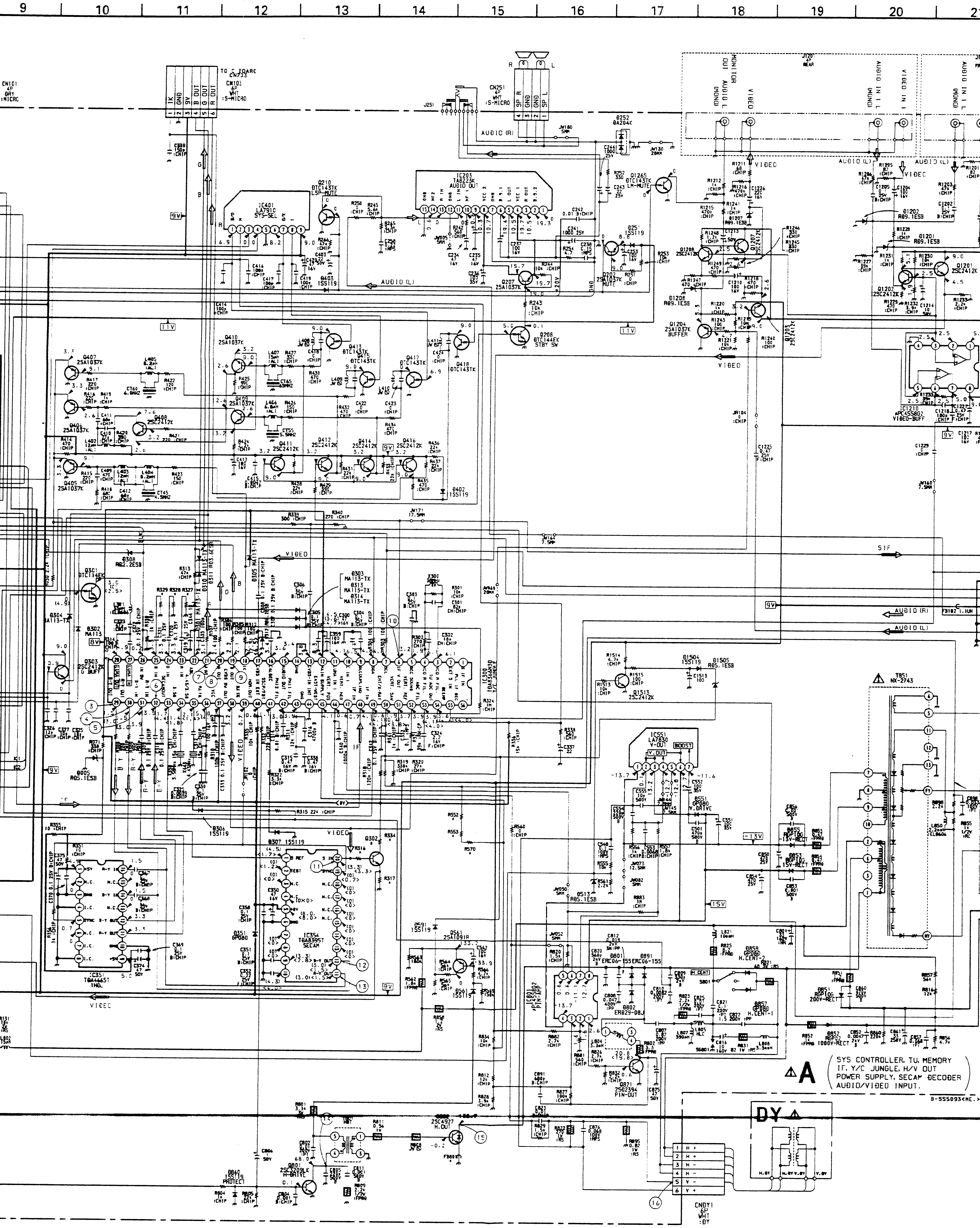




NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

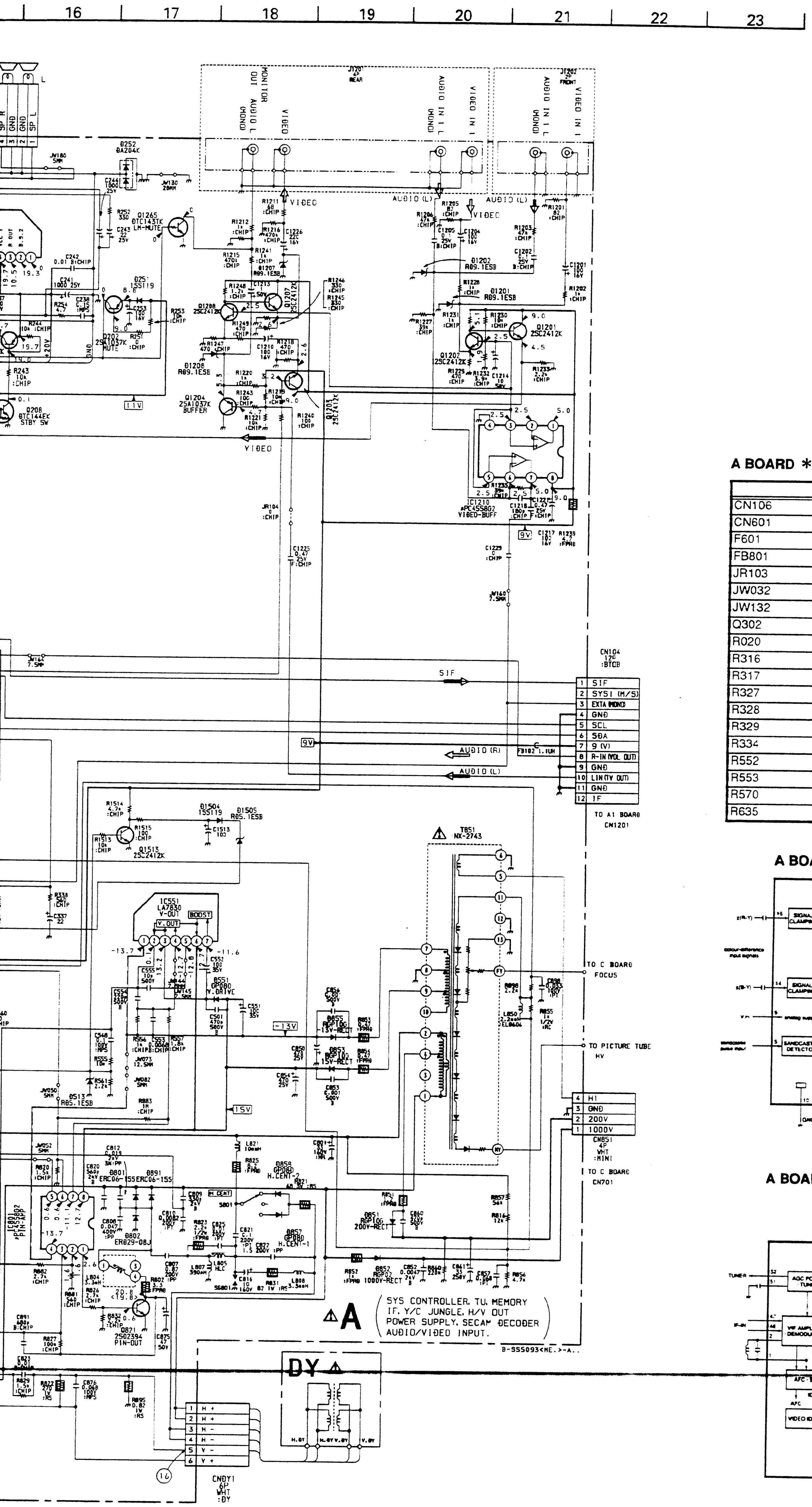
(1) Schematic Diagram of A Board


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
TU101
BT-A9401
D103
DA204K
Q106
2SC2412K
AGC MUTE
CN101
4P
GRY
:MICRC
GND
B INT
B DAT
B CLK
Q402
2SC2410S
Q404
DTC143TK
Q403
DTC143TK
D401
MA77-TX
SWF401
D101
MA113-TX
STOPPER
D102
RD4.7ESB
AGC-SW
Q109
2SC2412K
VC-AMP
IC102
HZ7T33-02
33V-REG
Q110
2SC2412K
VC-FILTER
33V
9V
5V
11V
Q407
2SA1037K
Q406
2SA1037K
Q408
2SC2412K
Q405
2SA1037K
TV/VIDEO
DISPLAY
VOL -
VOL +
PROG -
PROG +
COL SYS
WIDE
SELECT
TV SYS
MANUAL
PROGR
AUTO
PROGR
NICAM
ST/BY
RESPONSE
TIMER
D901
LN0220022G
LED
Q902
DTC144EK
Q903
DTC144EK
IC001
CXP85116B
U-COM
IC003
CAT24C04P
MEMORY
Q031
2SA1037K
Q301
DTC144EK
D308
RD2.2ESB
D304
MA113-TX
D302
MA113
Q303
2SC2412K
G BUFF
D005
RD5.1ESB
D004
RD5.1ESB
D001
RD4.7ESB
X001
CST4.00MG
IC004
SBX1790-11
IR-DET
D002
1SS119
D003
MA113
Q030
2SC2412K
BUFF
IC002
L78LR05D-MA
5V-REG
CN106
:BTOB
R
G
B
BLK
GND
SDA
SCL
ST-BY
GND
SSCP
VIDEO
7V
DGCT
DGCT
CN603
2P WHT :MINI
DGC
DGC
DGC
CN602
3P
WHT
:MINI
DGC
THP601
T605
LFT
D601
RBV-406H
AC-RECT
T601
SRT
D602
SP4M
D603
RD13ESB
Q601
2SC2412K
PC-SW
IC601
STR-S6708
REG-IC
GND
SINK
DRIVE
OCP
F/B
INH
V-IN
D609
D1NL20
D607
D1NL20
D610
D1NL20
D611
D1NL20
IC603
PC123F2
FEEDBACK
D606
31DF2
D605
31DF2-FC5
D604
30DF6
IC521
PQ09RE11
9V REG
IC602
SE135N
ERROR-AMP
IC351
TDA4665T
1HDL
CN601
2P
WHT
:VH
AC IN
AC IN
S601
F601
VIDEC


9
10
11
12
13
14
15
16
17
18
19
20
IC401 LA7910 SYS-SEL
IC203 TA8223K AUDIO OUT
Q210 DTC143TK LSP-MUTE
Q207 2SA1037K
Q208 DTC144EK STBY SW
Q202 2SA1037K MUTE
Q1265 DTC143TK LM-MUTE
J251
CN251 4P WHT :S-MICRO
CN102 6P WHT :S-MICRO
CN101 4P GRY :MICRO
MONITOR OUT AUDIO L (MONO)
VIDEO
AUDIO IN L (MONO)
VIDEO IN 1
AUDIO (R)
AUDIO (L)
VIDEO
IC1210 μPC4558G2 VIDEO-BUFF
Q1204 2SA1037K BUFFER
Q1201 2SC2412K
IC300 TDA8366 Y/C JUNGLE
Q301 DTC114EK
Q303 2SC2412K G BUFF
IC351 TDA4665T 1HD.
IC354 TDA8395T SECAM
Q302
IC551 LA7830 V-OUT
BOOST
Q1513 2SC2412K
TB51 NX-2743
IC801 PIN-AMP
Q821 2SD2394 PIN-OUT
2SC4927 H.OUT
Q801 2SC3209LK H-DRIVE
D840 1SS119 PROTECT
CNDY1 6P WHT :DY
DY
H+
H+
H-
H-
V-
V+
S1F
9V
11V
15V
-13V
8V

⚠A SYS CONTROLLER, TU, MEMORY IF, Y/C JUNGLE, H/V OUT POWER SUPPLY, SECAM DECODER AUDIO/VIDEO INPUT.

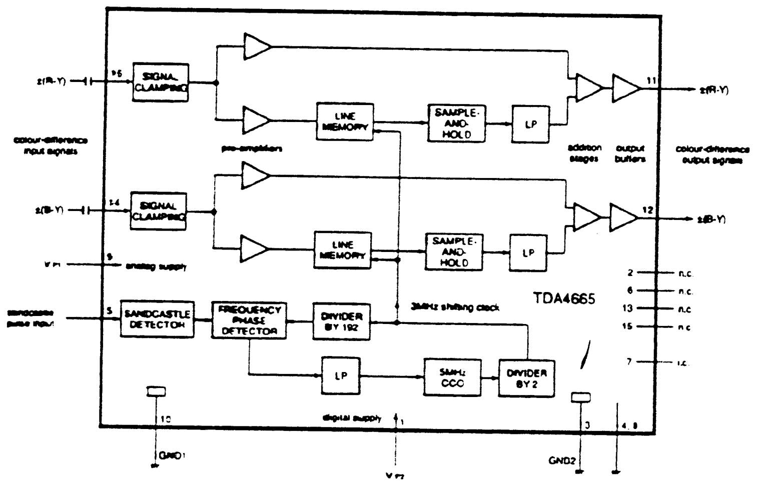
B-555093<ME.>


16
17
18
19
20
21
22
23
MONITOR OUT AUDIO L (MONO) VIDEO
J1201 4P REAR
AUDIO IN L (MONO)
VIDEO IN 1
J1202 2P FRONT
VIDEO
AUDIO (L)
SIF
CN104 12P :BTCB
1 SIF
2 SYS1 (M/S)
3 EXTA MONO
4 GND
5 SCL
6 SDA
7 9 (V)
8 R-IN (VOL OUT)
9 GND
10 LIN (TV OUT)
11 GND
12 IF
AUDIO (R)
AUDIO (L)
TO A1 BOARD CN1201
T851 NX-2743
IC551 LA7830 V-OUT
TO C BOARD FOCUS
TO PICTURE TUBE HV
4 HI
3 GND
2 200V
1 1000V
CN851 4P WHT :MINI
TO C BOARD CN701
IC801 PIN-AMP
SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT.
A
B-SS5093<ME,>-A..
DY
1 H+
2 H+
3 H-
4 H-
5 Y-
6 Y+
CNDY1 6P WHT :DY

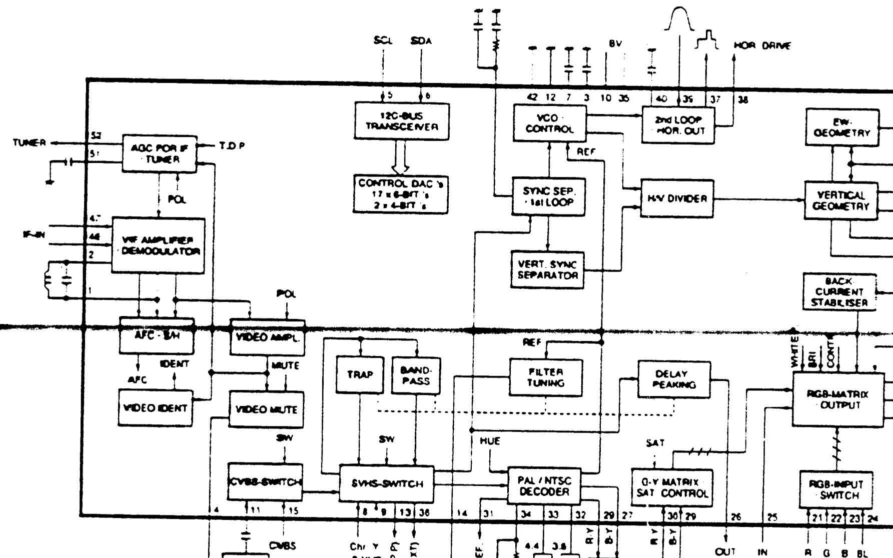
A BOARD ＊ MARK LIST

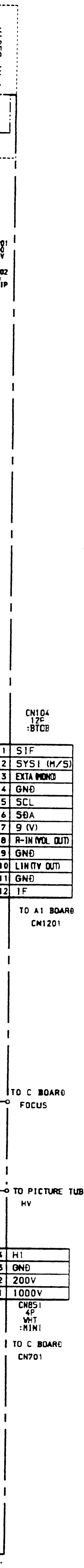
	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(
CN106	NOT USED	NOT USED	NOT US
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT US
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT US
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT US
R020	NOT USED	NOT USED	NOT US
R316	NOT USED	NOT USED	NOT US
R317	NOT USED	NOT USED	NOT US
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT US
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT US

A BOARD IC351 TDA4665T


SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
LP
5MHz CCC
DIVIDER BY 2
TDA4665
colour-difference input signals
colour-difference output signals
GND1
GND2

A BOARD IC300 TDA8366N3D

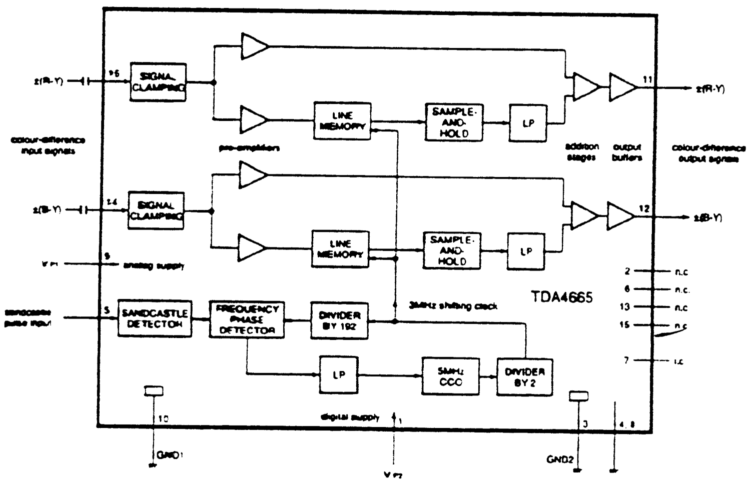

SCL
SDA
HOR DRIVE
TUNER
AGC FOR IF TUNER
T.D.P
IF-IN
VIF AMPLIFIER DEMODULATOR
I2C-BUS TRANSCEIVER
CONTROL DAC's
VCO CONTROL
SYNC SEP. 1st LOOP
2nd LOOP HOR OUT
H/V DIVIDER
VERT. SYNC SEPARATOR
EW-GEOMETRY
VERTICAL GEOMETRY
BACK CURRENT STABILISER
AFC-SW
VIDEO AMPL
VIDEO IDENT
VIDEO MUTE
TRAP
BAND-PASS
FILTER TUNING
DELAY PEAKING
RGB-MATRIX OUTPUT
CVBS-SWITCH
SVHS-SWITCH
PAL/NTSC DECODER
O-Y MATRIX SAT CONTROL
RGB-INPUT SWITCH
SOUND TRAP
TDA 4661
CVBS
SECAM REF
OUT
IN
R G B BL


CN104
12P
:BTOB
1 SIF
2 SYS1 (M/S)
3 EXTA MONO
4 GND
5 SCL
6 SDA
7 9 (V)
8 R-IN (VOL OUT)
9 GND
10 LIN (TV OUT)
11 GND
12 IF
TO A1 BOARD
CN1201
TO C BOARD
FOCUS
TO PICTURE TUBE
HV
H1
GND
200V
1000V
CN851
4P
WHT
:MINI
TO C BOARD
CN701

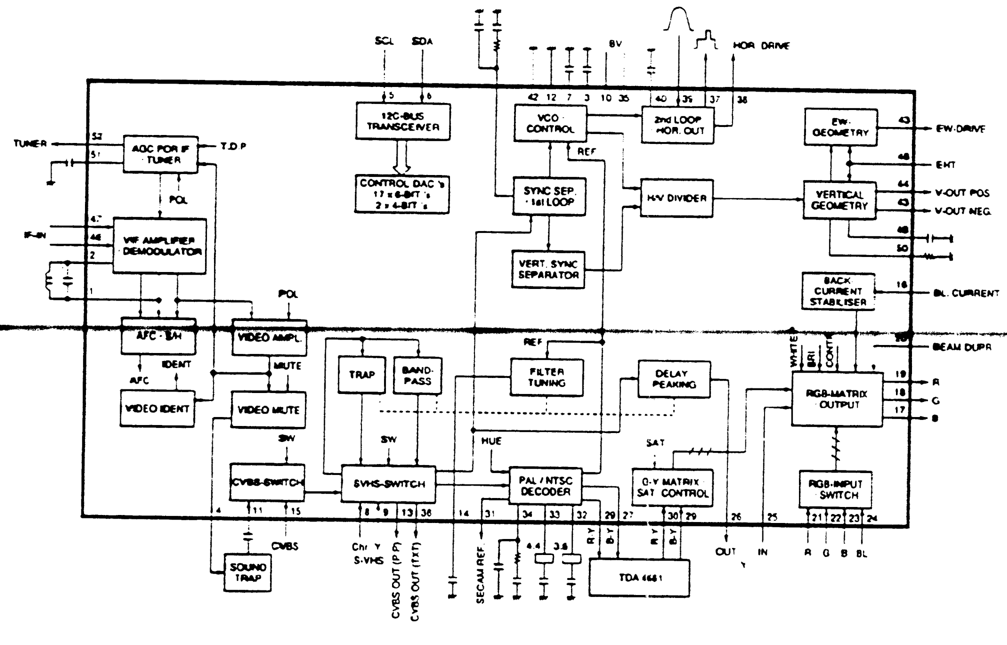
A BOARD * MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	C : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W :RS

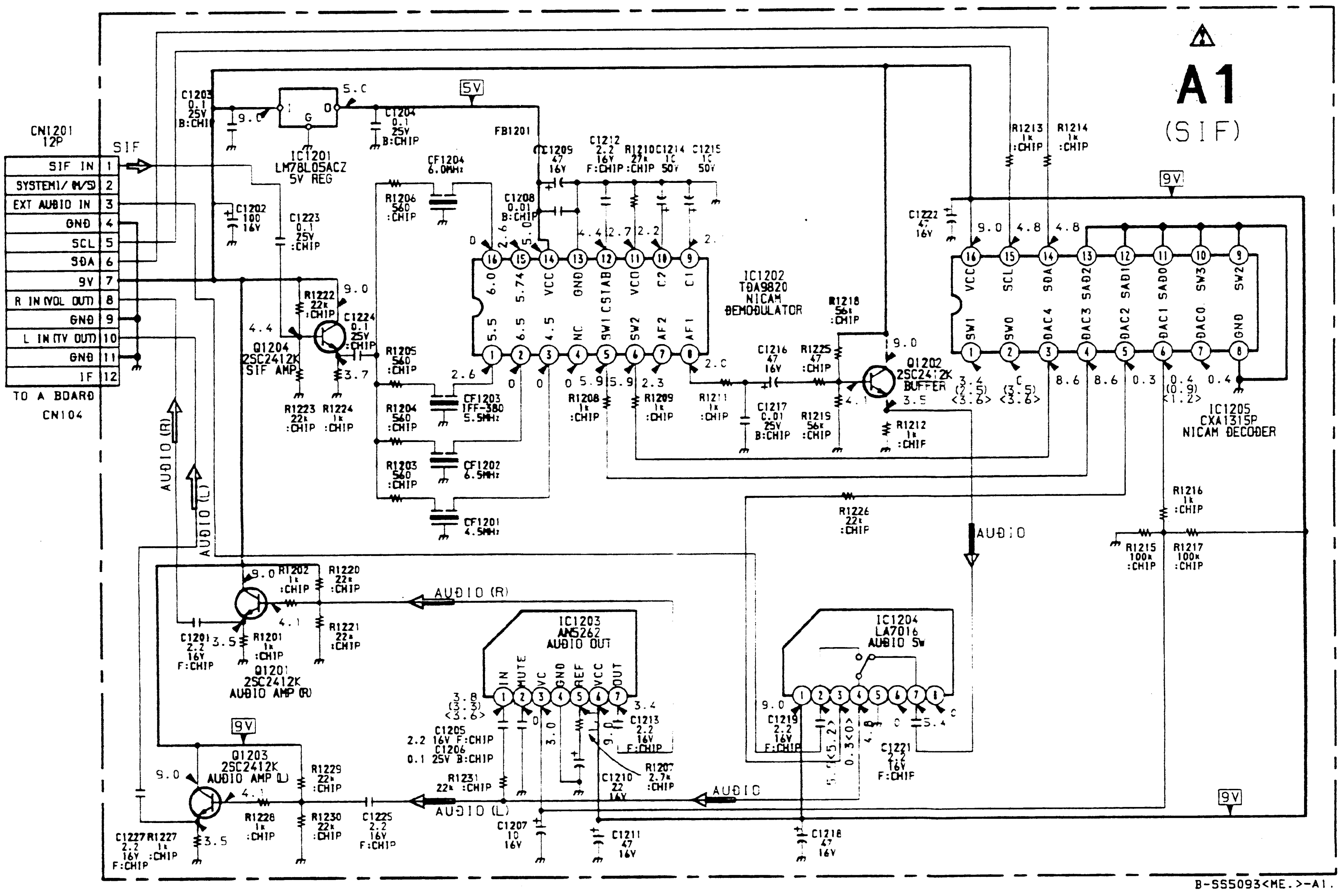
A BOARD IC351 TDA4665T

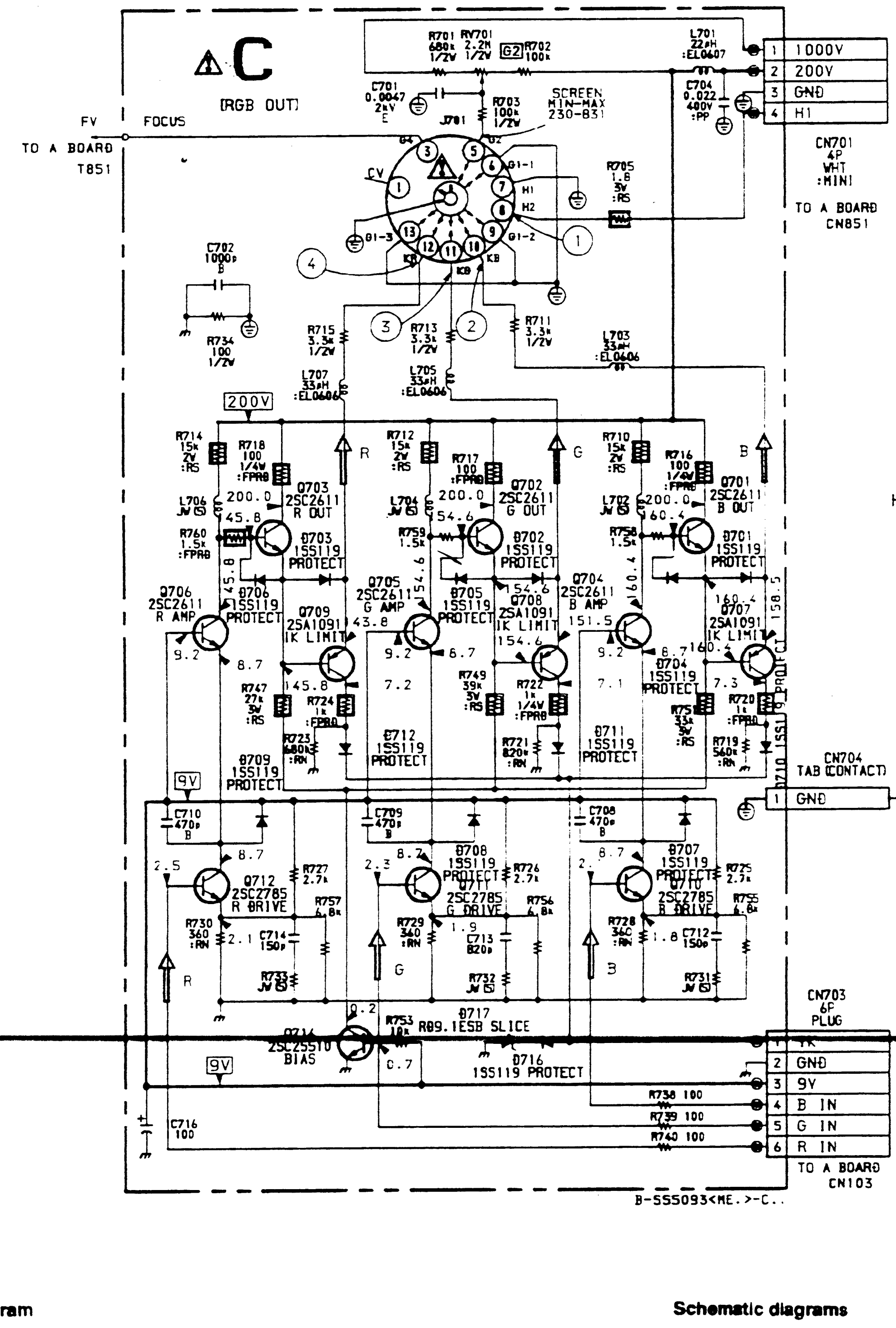

±(R-Y)
16
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
11
±(R-Y)
colour-difference input signals
pre-amplifiers
addition stages
output buffers
colour-difference output signals
±(B-Y)
14
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
12
±(B-Y)
9
analog supply
sandcastle pulse input
5
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
3MHz shifting clock
TDA4665
2 n.c
6 n.c.
13 n.c
15 n.c
7 i.c
LP
3MHz CCO
DIVIDER BY 2
10
digital supply
1
3
4, 8
GND1
VP2
GND2

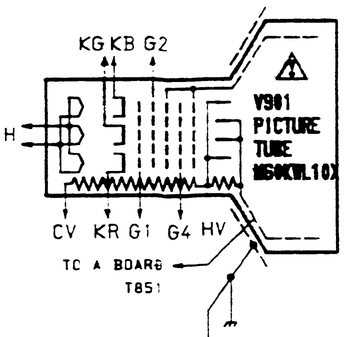
A BOARD IC300 TDA8366N3D


SCL
SDA
8V
HOR DRIVE
5
6
42 12 7 3 10 35
40
39
37
38
I2C-BUS TRANSCEIVER
CONTROL DAC's 17 x 6-BIT's 2 x 4-BIT's
VCO CONTROL
2nd LOOP HOR. OUT
REF
EW-GEOMETRY
43
EW-DRIVE
46
EHT
TUNER
52
51
AGC FOR IF TUNER
T.D.P
POL
SYNC SEP. 1st LOOP
H-V DIVIDER
VERTICAL GEOMETRY
44
V-OUT POS
45
V-OUT NEG
47
IF-IN
46
2
VIF AMPLIFIER DEMODULATOR
VERT. SYNC SEPARATOR
48
50
1
BACK CURRENT STABILISER
16
BL. CURRENT
POL
AFC - S/H
VIDEO AMPL.
REF
20
BEAM DUPR
IDENT
AFC
MUTE
VIDEO IDENT
VIDEO MUTE
TRAP
BAND-PASS
FILTER TUNING
DELAY PEAKING
WHITE
BRI
CONTR
RGB-MATRIX OUTPUT
19 R
18 G
17 B
SW
SW
HUE
SAT
CVBS-SWITCH
SVHS-SWITCH
PAL / NTSC DECODER
G-Y MATRIX SAT CONTROL
RGB-INPUT SWITCH
4
11
15
8 9 13 36
14
31
34 33 32
29 27
30 29
26
25
21 22 23 24
CVBS
SOUND TRAP
Chr Y
S-VHS
CVBS OUT (P.P)
CVBS OUT (TXT)
SECAM REF.
4.4
3.6
R-Y
B-Y
R-Y
B-Y
TDA 4661
OUT
IN
Y
R G B BL

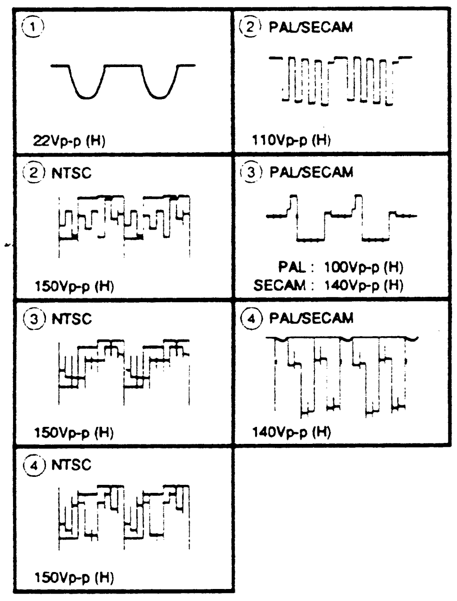
(2) Schematic Diagrams of A1, C, F1 and V1 Boards

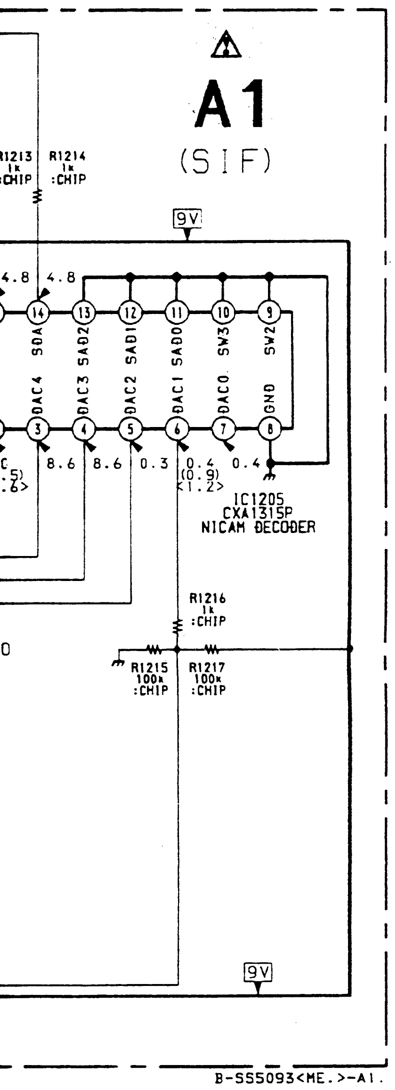

A1
(SIF)
CN1201 12P
SIF IN
SYSTEM1/ M/S
EXT AUDIO IN
GND
SCL
SDA
9V
R IN (VOL OUT)
GND
L IN (TV OUT)
GND
IF
TO A BOARD CN104
IC1201 LM78L05ACZ 5V REG
IC1202 TDA9820 NICAM DEMODULATOR
IC1205 CXA1315P NICAM DECODER
Q1204 2SC2412K SIF AMP
Q1202 2SC2412K BUFFER
IC1203 AN5262 AUDIO OUT
IC1204 LA7016 AUDIO SW
Q1201 2SC2412K AUDIO AMP (R)
Q1203 2SC2412K AUDIO AMP (L)
CF1204 6.0MHz
CF1203 IFF-380 5.5MHz
CF1202 6.5MHz
CF1201 4.5MHz
AUDIO (R)
AUDIO (L)
AUDIO
9V
5V
B-SS5093<ME.>-A1.


C
(RGB OUT)
FV
FOCUS
TO A BOARD T851
CN701 4P WHT :MINI
TO A BOARD CN851
1000V
200V
GND
H1
SCREEN MIN-MAX 230-831
Q703 2SC2611 R OUT
Q702 2SC2611 G OUT
Q701 2SC2611 B OUT
Q706 2SC2611 R AMP
Q705 2SC2611 G AMP
Q704 2SC2611 B AMP
Q709 2SA1091 IK LIMIT
Q708 2SA1091 IK LIMIT
Q707 2SA1091 IK LIMIT
Q712 2SC2785 R DRIVE
Q711 2SC2785 G DRIVE
Q710 2SC2785 B DRIVE
Q714 2SC2510 BIAS
D717 RB9.1ESB SLICE
D716 1SS119 PROTECT
CN704 TAB (CONTACT)
GND
CN703 6P PLUG
IK
GND
9V
B IN
G IN
R IN
TO A BOARD CN103
B-SS5093<ME.>-C..

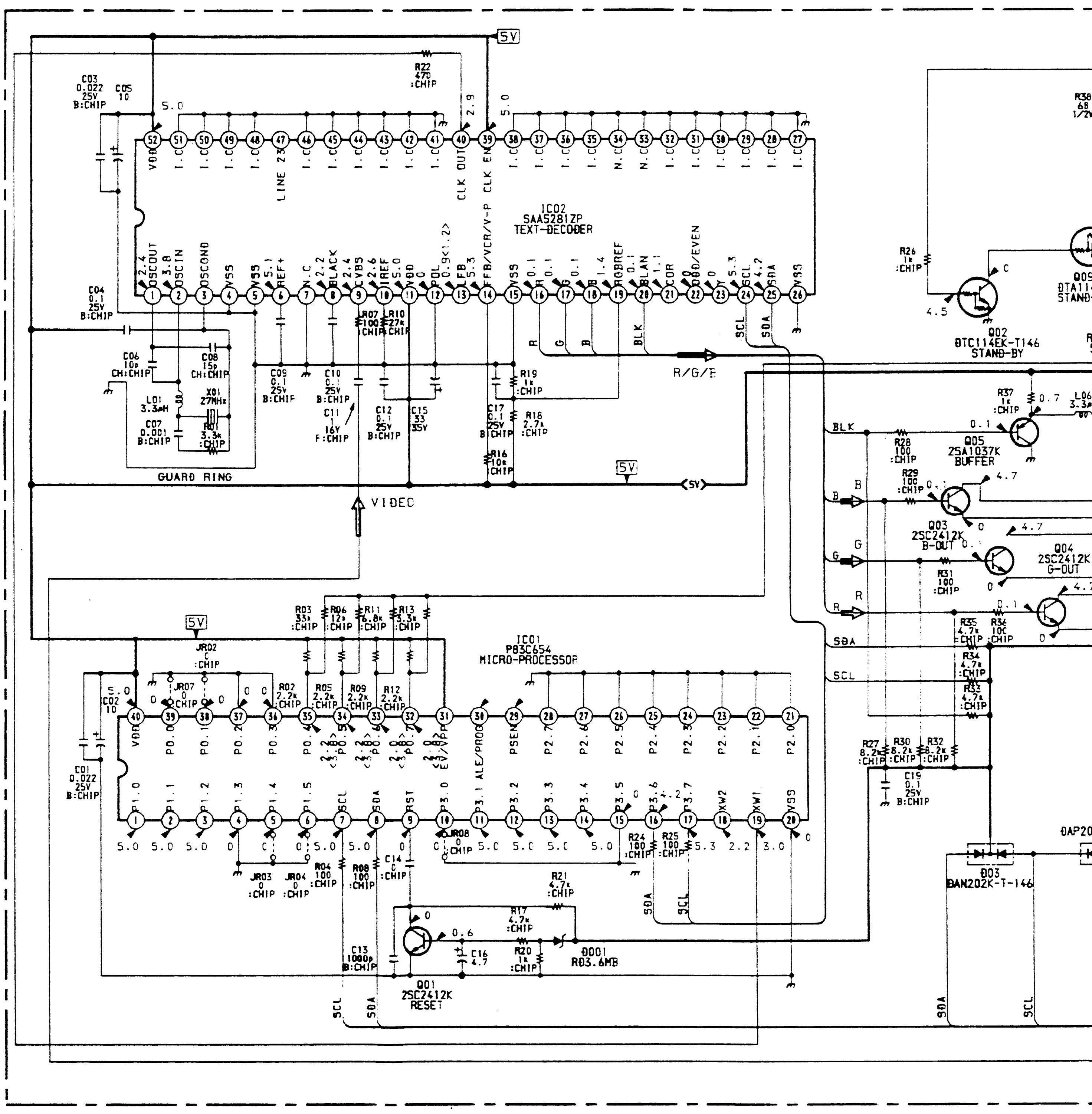

KG KB G2
H
V901 PICTURE TUBE
CV KR G1 G4 HV
TO A BOARD T851

C BOARD WAVEFORMS

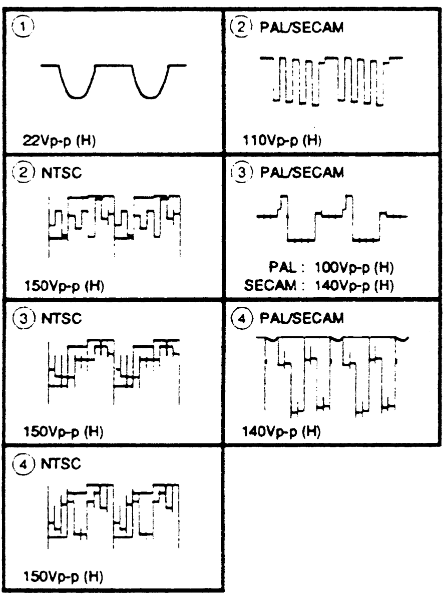



A1
(SIF)
IC1205
CXA1315P
NICAM DECODER
9V
R1213
R1214
R1215
R1216
R1217
SDA
SAD2
SAD1
SAD0
SW3
SW2
DAC4
DAC3
DAC2
DAC1
DAC0
GND
B-SS5093<ME.>-A1.

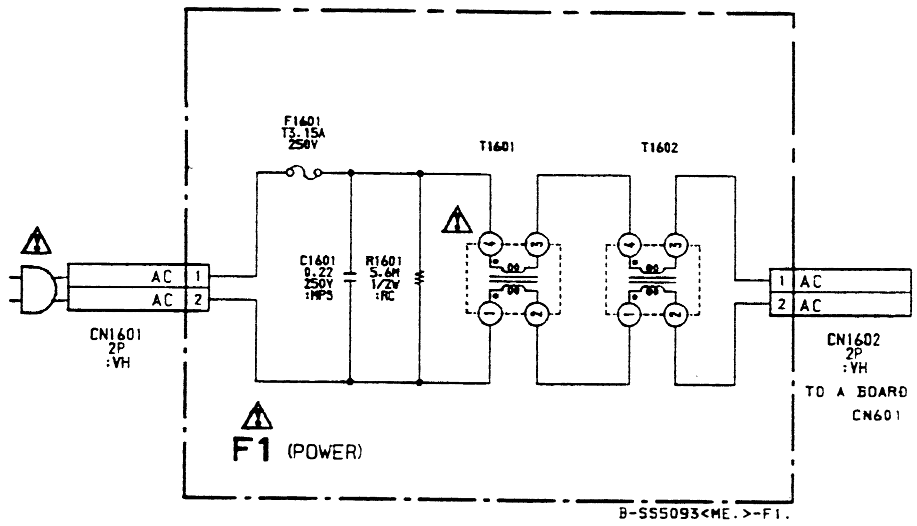
(KV-G25M11 only)


IC02
SAA5281ZP
TEXT-DECODER
IC01
P83C654
MICRO-PROCESSOR
5V
R/G/B
VIDEO
GUARD RING
X01
27MHz
L01
3.3μH
Q01
2SC2412K
RESET
Q02
DTC114EK-T146
STAND-BY
Q03
2SC2412K
B-OUT
Q04
2SC2412K
G-OUT
Q05
2SA1037K
BUFFER
D03
DAN202K-T-146
D001
RD3.6MB
BLK
SDA
SCL

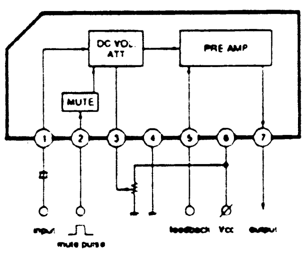
C BOARD WAVEFORMS

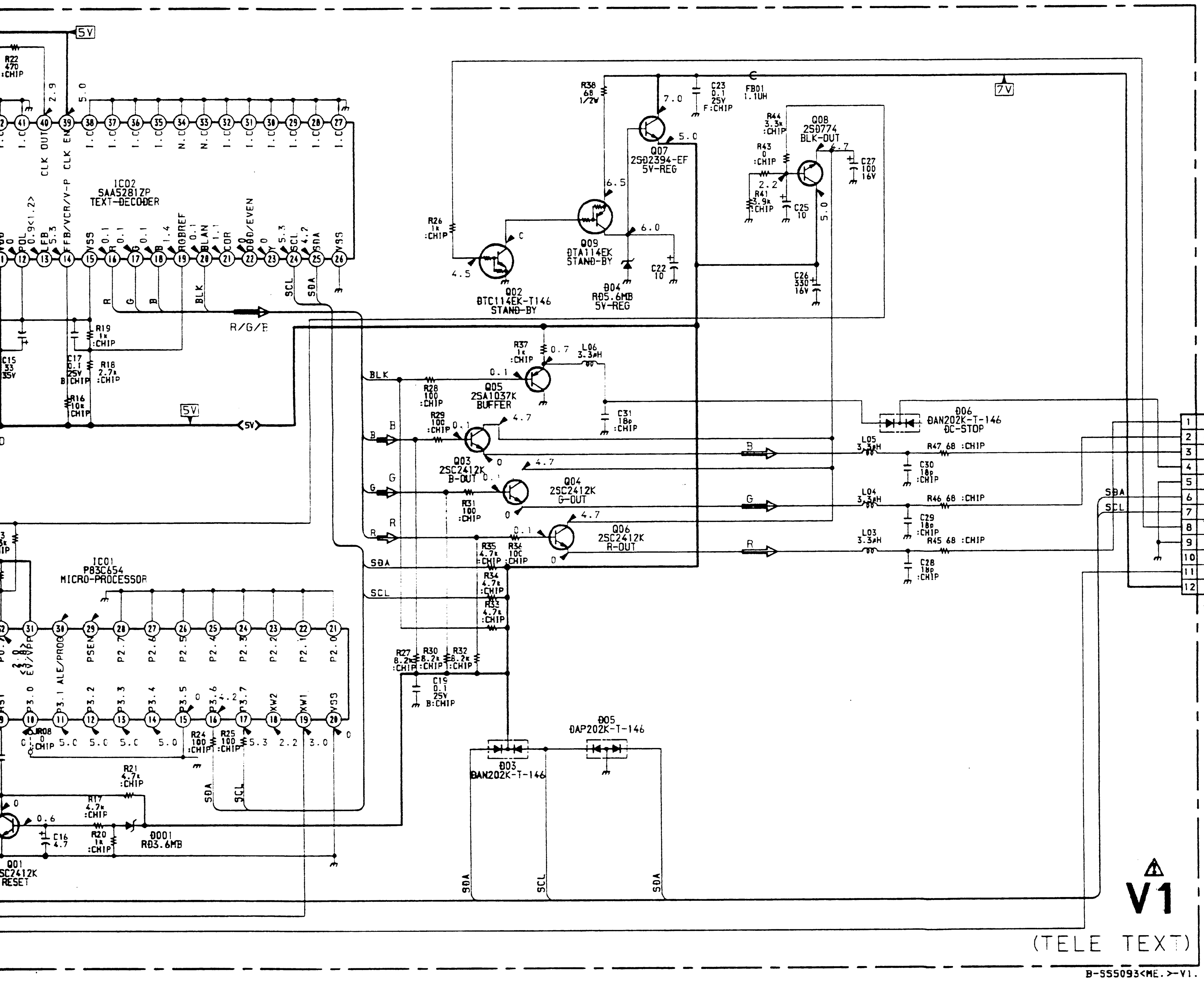


(KV-G25M1 (RUSS) only)

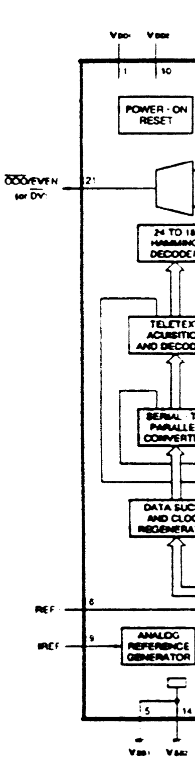

F1601
T3.15A
250V
T1601
T1602
C1601
0.22
250V
:MPS
R1601
5.6M
1/2W
:RC
AC 1
AC 2
CN1601
2P
:VH
1 AC
2 AC
CN1602
2P
:VH
TO A BOARD
CN601
F1 (POWER)
B-SS5093<ME.>-F1.

A1 BOARD IC1203 AN5262

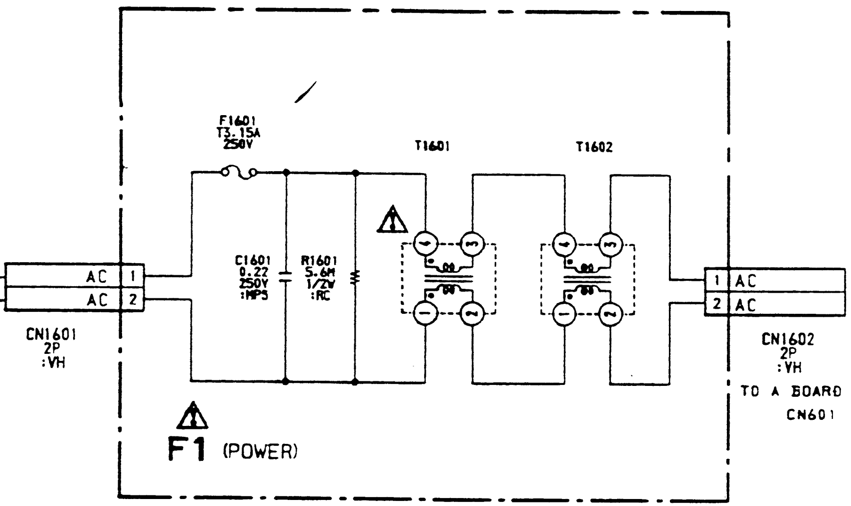

DC VOL. ATT
PRE AMP
MUTE
1
2
3
4
5
6
7
input
mute pulse
feedback
Vcc
output


IC02
SAA5281ZP
TEXT-DECODER
IC01
P83C654
MICRO-PROCESSOR
Q01
2SC2412K
RESET
Q02
DTC114EK-T146
STAND-BY
Q03
2SC2412K
B-OUT
Q04
2SC2412K
G-OUT
Q05
2SA1037K
BUFFER
Q06
2SC2412K
R-OUT
Q07
2SD2394-EF
5V-REG
Q08
2SD774
BLK-OUT
Q09
DTA114EK
STAND-BY
D03
DAN202K-T-146
D04
RD5.6MB
5V-REG
D05
DAP202K-T-146
D06
DAN202K-T-146
DC-STOP
D001
RD3.6MB
CN01
12P
:BTOB
1 R
2 G
3 B
4 BLK
5 GND
6 TEXT SDA
7 TEXT SCL
8 ST-BY
9 GND
10 SSCP
11 VIDEO
12 7V
TO A BOARD
CN106
5V
7V
R/G/B
BLK
SDA
SCL
V1
(TELE TEXT)
B-SS5093<ME.>-V1.

V1 BOAR

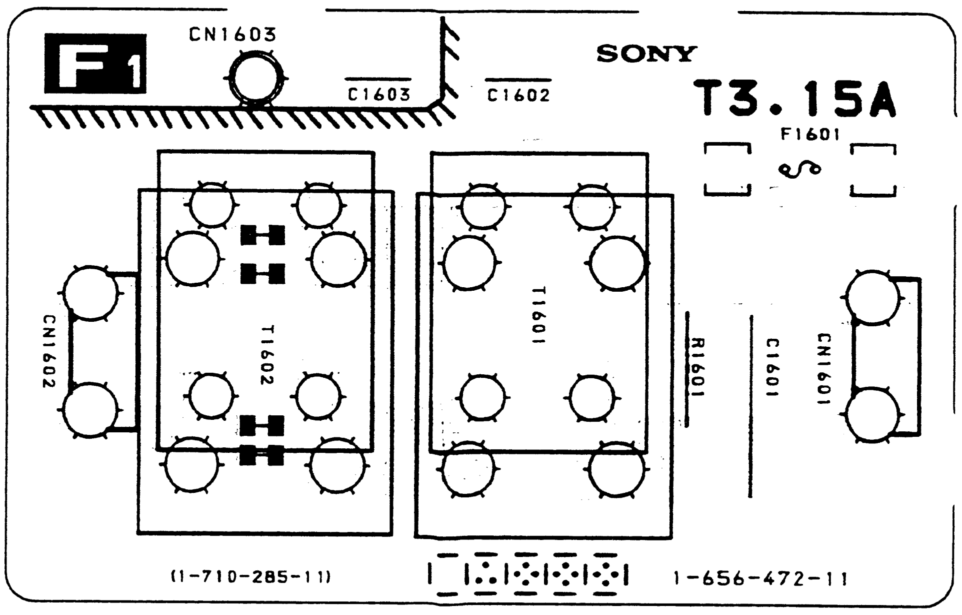

POWER-ON RESET
DATA SLICING AND CLOCK REGENERATION
SERIAL TO PARALLEL CONVERTER
TELETEXT ACQUISITION AND DECODER
24 TO 18 HAMMING DECODER
ANALOG REFERENCE GENERATOR

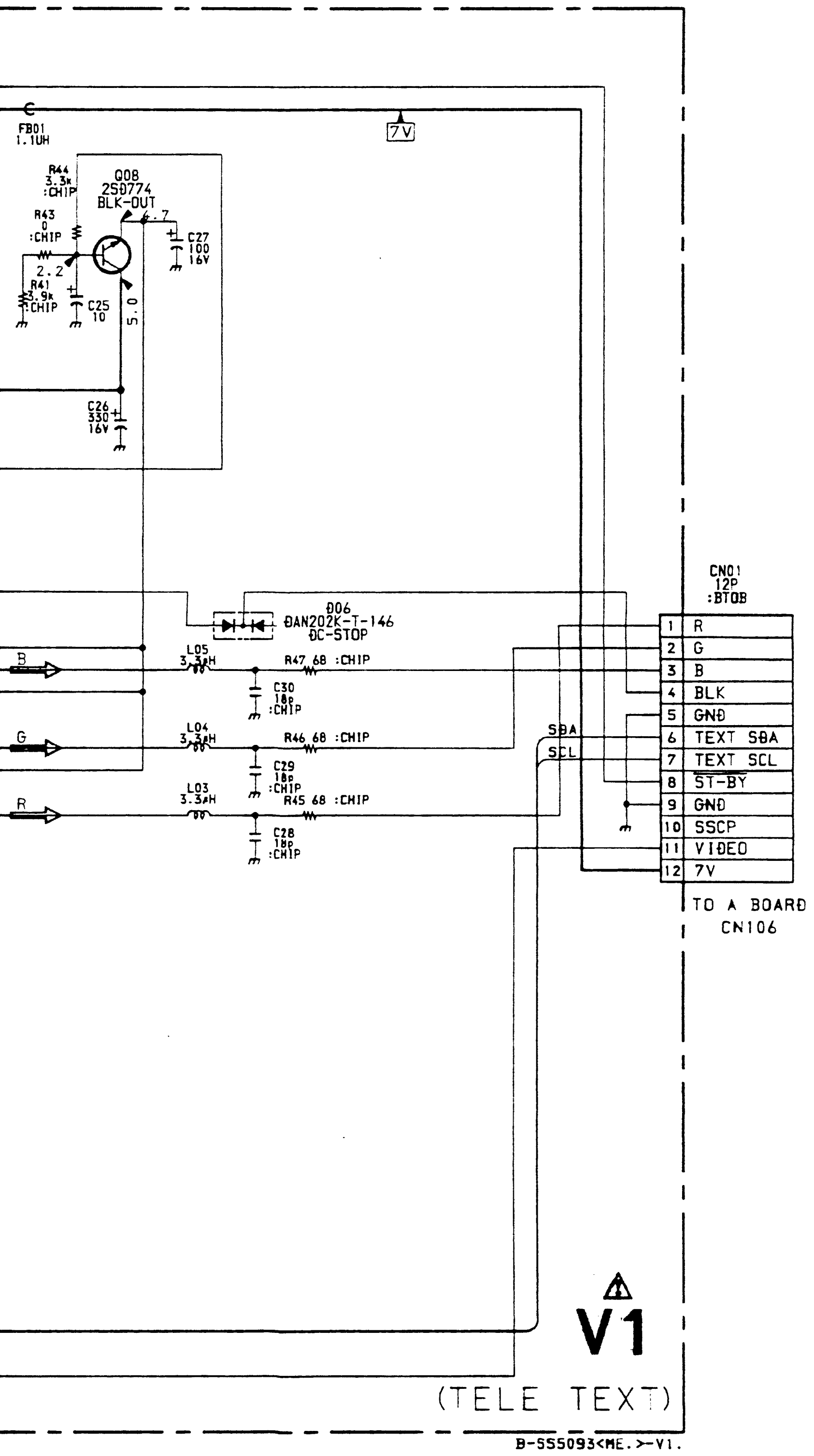
(KV-G25M1 (RUSS) only)


F1601
T3.15A
250V
T1601
T1602
C1601
0.22
250V
:MPS
R1601
5.6M
1/2W
:RC
AC 1
AC 2
CN1601
2P
:VH
1 AC
2 AC
CN1602
2P
:VH
TO A BOARD
CN601
F1 (POWER)
B-SS5093<ME.>-F1.

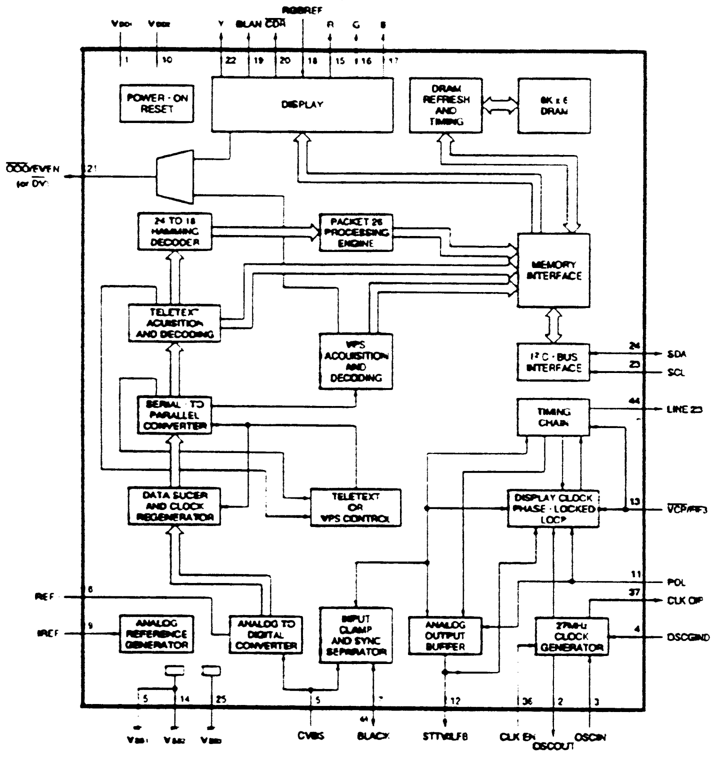
PRINTED WIRING BOARD **F1** [POWER]

– F1 Board – **(KV-G25M1 (RUSS) only)**


F1
CN1603
C1603
C1602
SONY
T3.15A
F1601
CN1602
T1602
T1601
R1601
C1601
CN1601
(1-710-285-11)
1-656-472-11

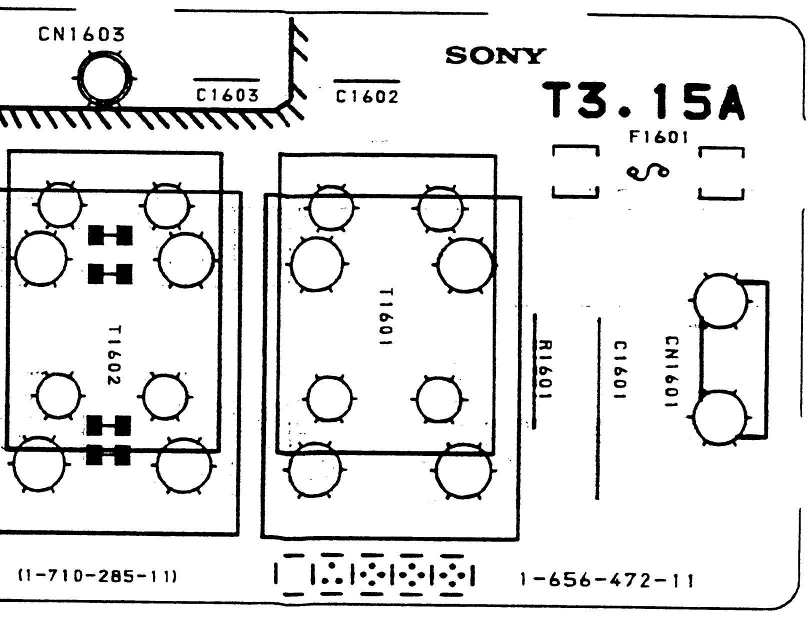

FB01
1.1UH
7V
R44
3.3k
:CHIP
Q08
2SD774
BLK-OUT
4.7
R43
0
:CHIP
C27
100
16V
2.2
R41
3.9k
:CHIP
C25
10
5.0
C26
330
16V
D06
DAN202K-T-146
DC-STOP
CN01
12P
:BTOB
L05
3.3μH
R47 68 :CHIP
C30
18p
:CHIP
B
L04
3.3μH
R46 68 :CHIP
C29
18p
:CHIP
G
L03
3.3μH
R45 68 :CHIP
C28
18p
:CHIP
R
SDA
SCL
1 R
2 G
3 B
4 BLK
5 GND
6 TEXT SDA
7 TEXT SCL
8 ST-BY
9 GND
10 SSCP
11 VIDEO
12 7V
TO A BOARD
CN106
V1
(TELE TEXT)
B-SS5093<ME.>-V1.

V1 BOARD IC02 SAA5281ZP

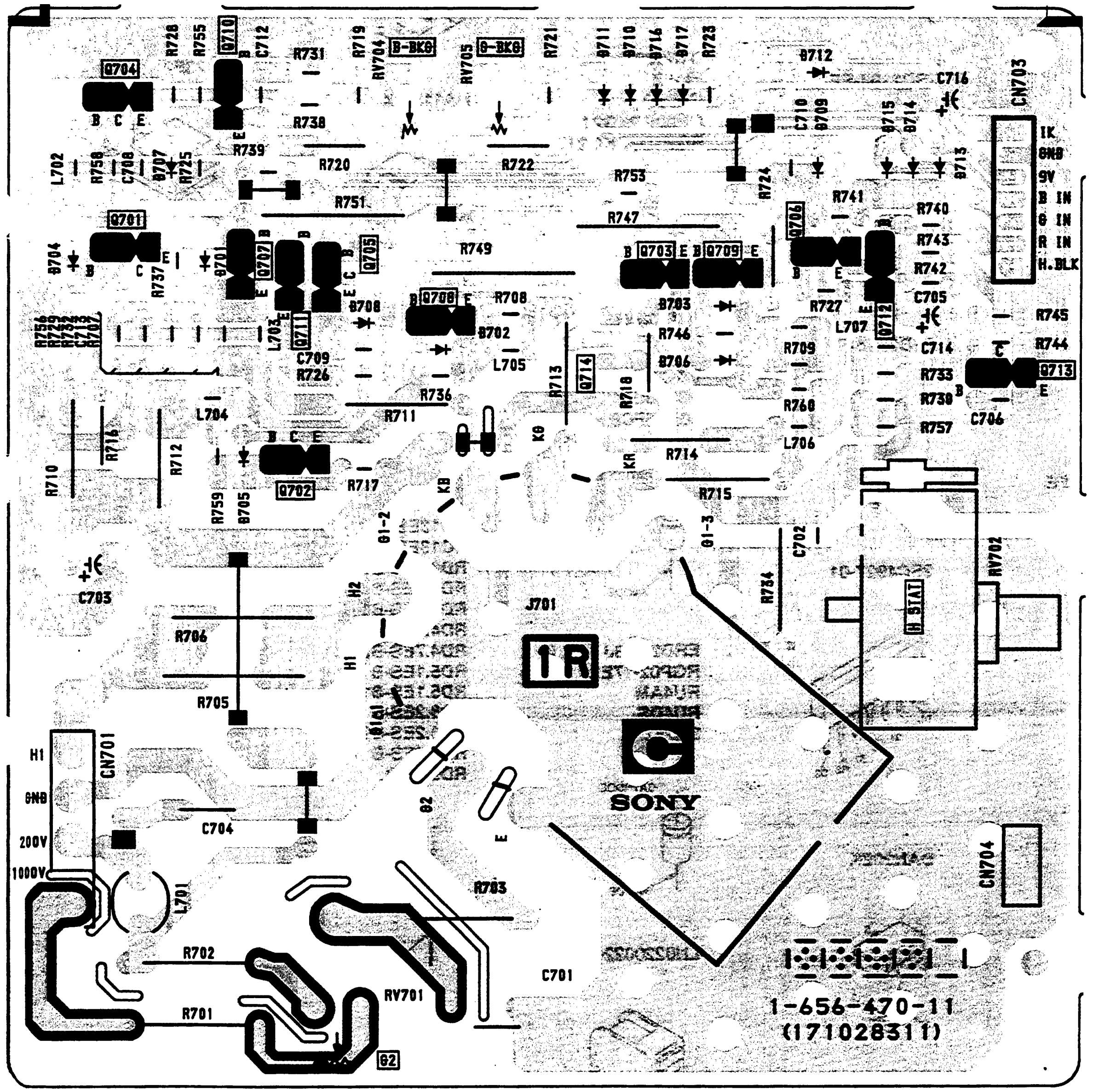

VDD1
VDD2
Y
BLAN
COR
RGBREF
R
G
B
1
10
22
19
20
18
15
16
17
POWER-ON RESET
DISPLAY
DRAM REFRESH AND TIMING
8K x 8 DRAM
ODD/EVEN (or DV)
21
24 TO 18 HAMMING DECODER
PACKET 26 PROCESSING ENGINE
MEMORY INTERFACE
TELETEXT ACQUISITION AND DECODING
VPS ACQUISITION AND DECODING
I²C-BUS INTERFACE
24
SDA
23
SCL
SERIAL TO PARALLEL CONVERTER
TIMING CHAIN
44
LINE 23
DATA SLICER AND CLOCK REGENERATOR
TELETEXT OR VPS CONTROL
DISPLAY CLOCK PHASE-LOCKED LOOP
13
VCR/FF3
11
POL
37
CLK O/P
REF
8
IREF
9
ANALOG REFERENCE GENERATOR
ANALOG TO DIGITAL CONVERTER
INPUT CLAMP AND SYNC SEPARATOR
ANALOG OUTPUT BUFFER
27MHz CLOCK GENERATOR
4
OSCGND
5
14
25
5
12
36
2
3
VSS1
VSS2
VSS3
CVBS
BLACK
STTV/LFB
CLK EN
OSCOUT
OSCIN

VIRING BOARD **F1** [POWER]

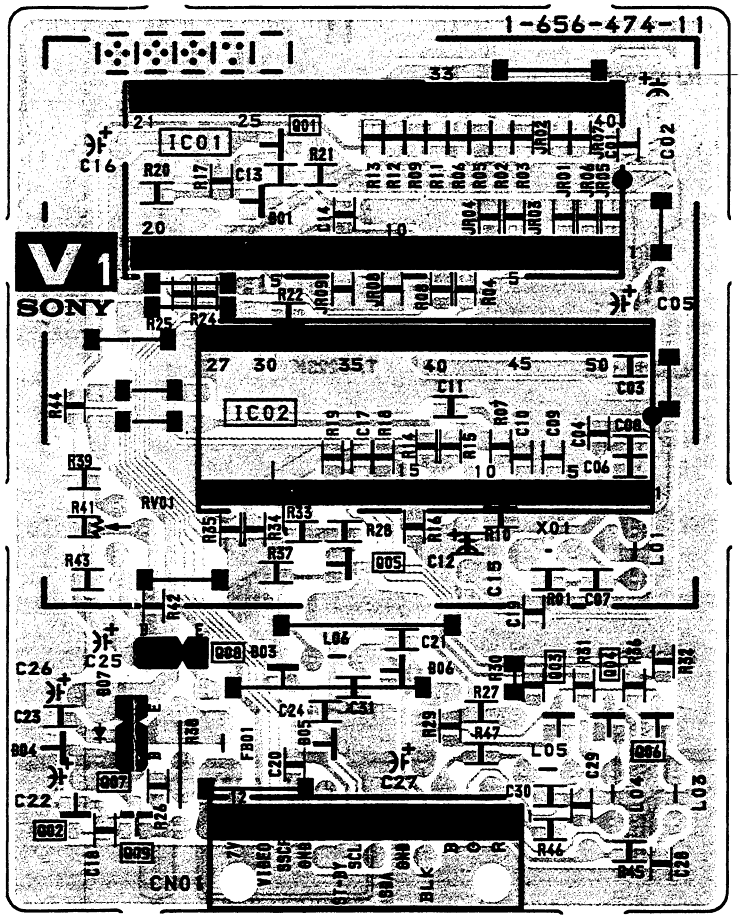
– (KV-G25M1 (RUSS) only)


CN1603
C1603
C1602
SONY
T3.15A
F1601
T1602
T1601
R1601
C1601
CN1601
(1-710-285-11)
1-656-472-11

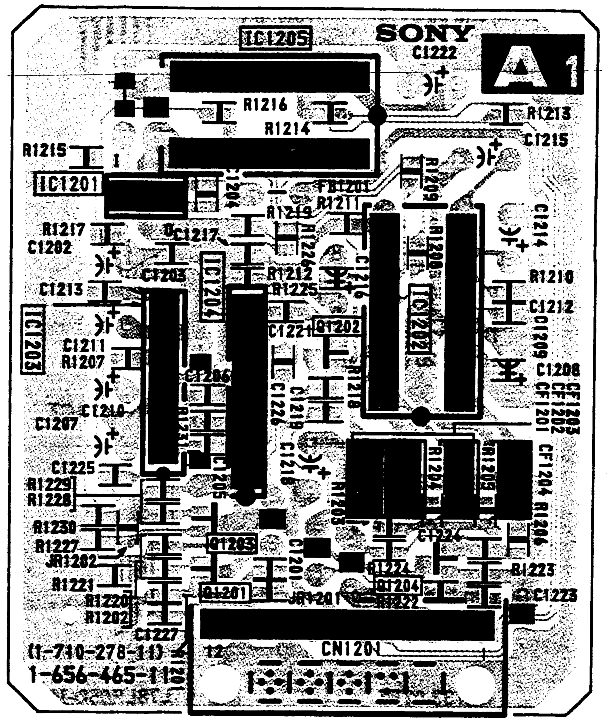
– C Board –


Q704
Q701
Q702
Q703
Q705
Q706
Q707
Q708
Q709
Q710
Q711
Q712
Q713
Q714
CN701
CN703
CN704
IK
GND
9V
B IN
G IN
R IN
H.BLK
H1
GND
200V
1000V
L701
L702
L703
L704
L705
L706
L707
C701
C703
C704
C705
C706
C714
C716
RV701
RV702
RV704
RV705
R701
R702
R703
R705
R706
J701
B-BK8
KR
KG
KB
C
SONY
1-656-470-11
(171028311)

– V1 Board – (KV-G25M11 only)

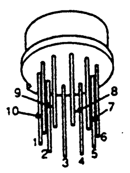

1-656-474-11
V1
SONY
IC01
IC02
CN01
RV01
X01
L01
L03
L04
L05
C02
C05
C16
C25
C26
VIDEO
GND
SCL
SDA
BLK
B
G
R

– A1 Board –

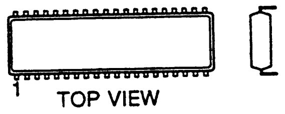

IC1205
SONY
A1
IC1201
IC1202
IC1203
IC1204
CN1201
C1222
C1215
C1208
C1212
C1223
R1213
R1214
R1215
R1216
R1210
R1223
CF1201
CF1202
CF1203
CF1204
Q1201
Q1202
Q1203
Q1204
(1-710-278-11)
1-656-465-11

5-4. SEMICONDUCTORS

AN5262

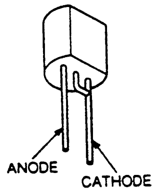

9
10
11
8
7
6
1
2
3
4
5

CAT24C04P (8PIN)
CXA1110BS (30PIN)
CXA1315P (16PIN)
CXP85116B-615S (64PIN)
CXP85224A-010S (64PIN)
P83C654 (40PIN)
SAA5281ZP (52PIN)
TDA4665T (16PIN)
TDA8366N3D (56PIN)
TDA8395T (20PIN)
TDA8424 (20PIN)
TDA9820 (16PIN)

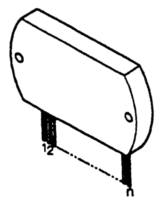


Dual In-line Package
Pin 6 ~ 98

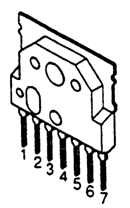
HZT33-02TE
µPC574J


ANODE
CATHODE

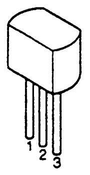
LA7016



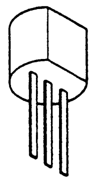
LA7830



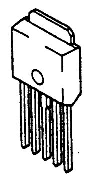
LA7910



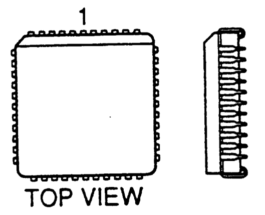
LM78L05ACZ



L78LR05D-MA

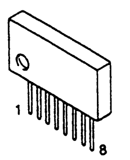


MSP3410 (44PIN)

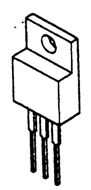


Quad Flat J-leaded Package
Pin 20 ~ 996

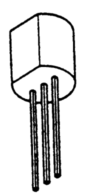
NJM2234L



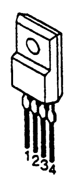
NJM7805FA



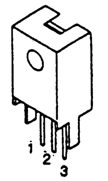
NJM78L12A



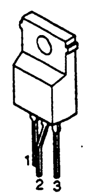
PQ09RE11



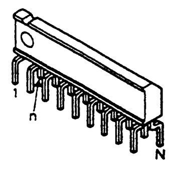
SBX1790-11
SBX1790-51



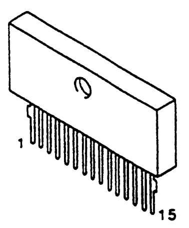
SE-135N



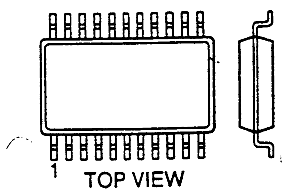
STR-S6708



TA8223K

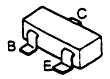


µPC4558G2 (8PIN)

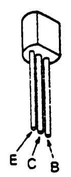


Small Outline L-leaded Package
Pin 8 ~ 98

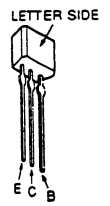
DTA114EK
DTC114EK
DTC143TK
DTC144EK
2SA1037K-QR
2SA1162-G
2SC1623-L5L6
2SC2412K-QR
2SC2712-YG



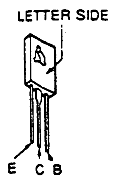
2SA1091
2SA1091-O
2SC2551-O



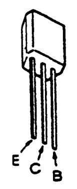
2SC2410SN
2SC2785-HFE


LETTER SIDE
E
C
B

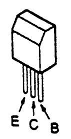
2SC2611


LETTER SIDE
E
C
B

2SC2669-O



2SC3209LK
2SD774-34



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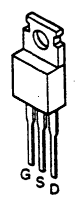

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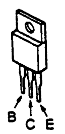

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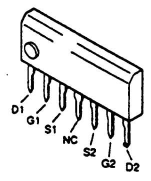
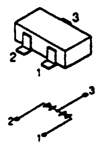

D1
G1
S1
NC
S2
G2
D2

DAN202K



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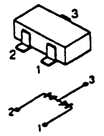
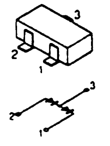


DA204K



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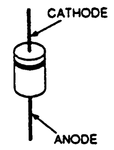
EL-1Z
GP08D
GP08DPKG23
RGP10GPKG23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ANODE

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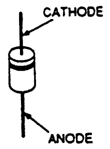
30DF6FC8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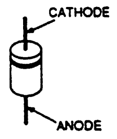
ANODE

ERD29-08J
RGP02-17EL
RU4AM
RU4DS
31DF2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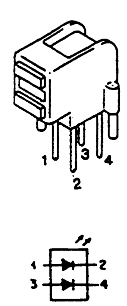
ANODE

LN0220022G



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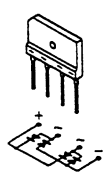
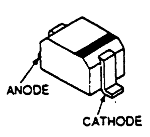
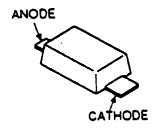
RBV-406H



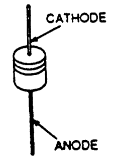
MA113-TX


ANODE
CATHODE

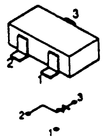
MA77-TX


ANODE
CATHODE

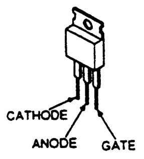
RD13ES-B
RD13ES-B2
RD2.2ES-B
RD3.6ES-B
RD3.6ES-B1
RD4.7ES-B
RD4.7ES-B2
RD5.1ES-B
RD5.1ES-B1
RD8.2ES-B
RD8.2ES-B2
RD9.1ES-B
RD9.1ESL


CATHODE
ANODE

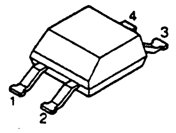
RD3.6M-B
RD3.6M-B1
RD5.6M-B
RD5.6M-B2



5P4M


CATHODE
ANODE
GATE

PC123F2



SECTION 6
EXPLODED VIEWS

NOTE:

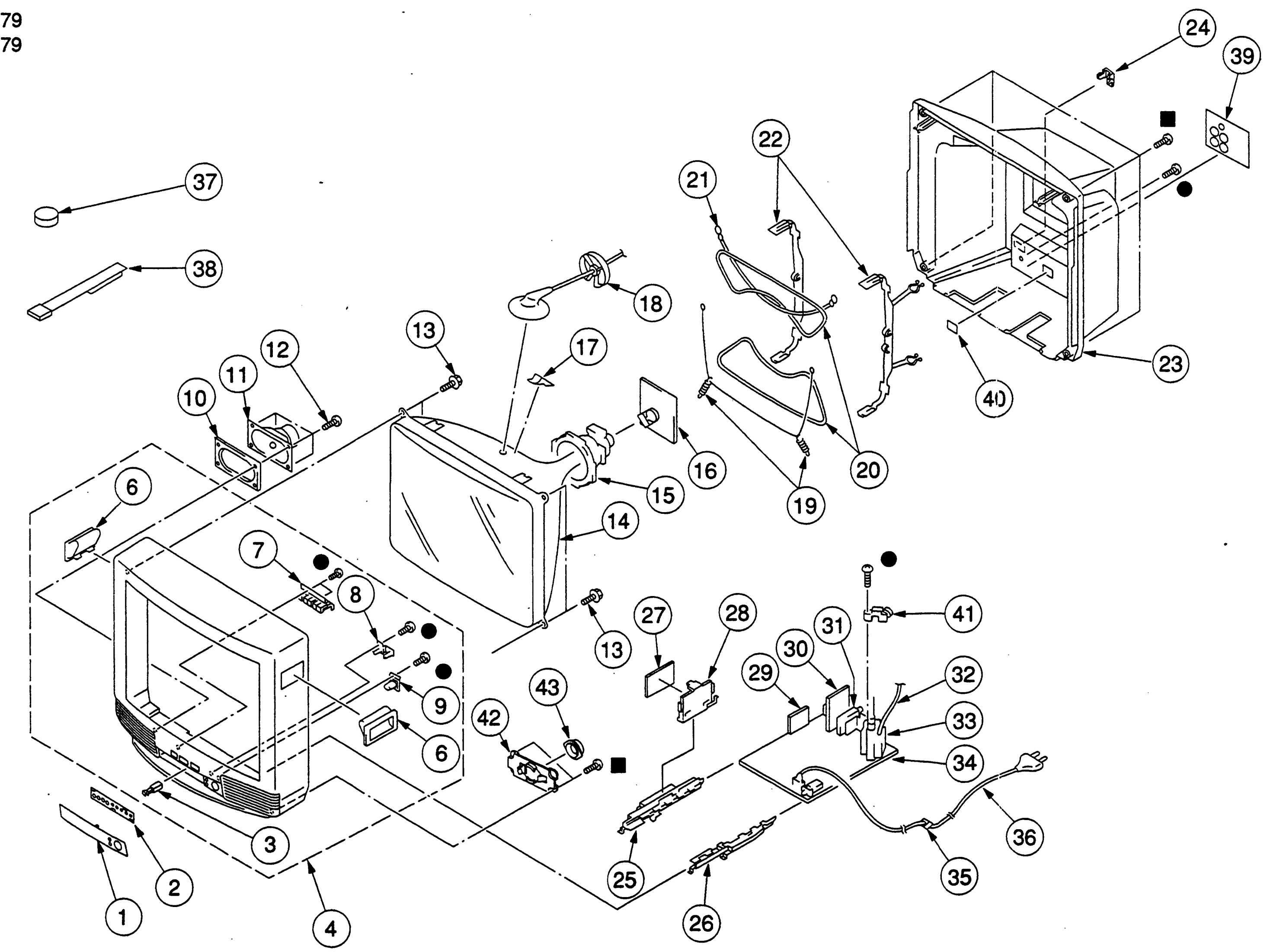
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

●: BVTP3 × 12 7-685-648-79
■: BVTP4 × 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-048-702-11	DOOR, CONTROL	
2	4-048-575-11	LABEL, CONTROL	
3	4-627-936-01	LOCK, MINIATURE SIDE	
4	X-4032-787-1	BEZNET ASSY	
6	4-048-691-01	HANDLE	
7	4-048-687-01	BUTTON, MULTI	
8	4-049-123-01	GUIDE, LIGHT	
9	4-048-688-01	BUTTON, POWER	
10	4-037-613-01	CUSHION, SP	
11	1-504-305-11	SPEAKER (5X12CM)	
12	4-043-388-01	SCREW, STEP TAPPING	
13	4-390-505-01	SCREW (7), TAPPING	
14	⚠8-733-242-05	PICTURE TUBE (M60KWL10X)	
15	⚠8-451-404-11	DEFLECTION YOKE (Y25GXAS)	
16	*A-1331-428-A	C BOARD, COMPLETE	
17	3-704-495-01	SPACER, DY	
18	*3-704-372-11	HOLDER, HV CABLE	
19	4-369-318-61	SPRING, TENSION	
20	⚠1-403-619-11	COIL, DEMAGNETIZATION	
21	4-043-827-11	BAND, DEGAUSSING COIL	
22	*4-042-988-01	HOLDER, DGC	
23	4-048-703-01	COVER, REAR	
24	4-049-130-01	CLAMP, CODE	
25	*4-048-690-01	RAIL (L), GUIDE	
26	*4-048-689-01	RAIL (R), GUIDE	
27	*A-1241-190-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS))	
28	*4-049-158-01	BRACKET, F1 PC BOARD (KV-G25M1(RUSS))	
29	*A-1347-103-A	V1 BOARD, COMPLETE (KV-G25M11)	
30	*A-1292-869-A	A1 BOARD, COMPLETE	
31	⚠8-598-323-00	TUNER, BT-AG401	
32	1-900-212-02	LEAD ASSY, FOCUS	
33	⚠1-453-190-11	TRANSFORMER, FLYBACK (NX-2743//M3B)	
34	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))	
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))	
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))	
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11)	
35	⚠4-389-778-11	HOLDER, AC CORD	
36	⚠1-574-062-22	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-G25M1(ME)/M1 (RUSS)/M11)	
	⚠1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-G25M1(HK))	
37	1-452-032-00	MAGNET, DISC	
38	X-4387-214-1	PERMALOY ASSY, CORRECTION	
39	4-049-121-01	LABEL, TERMINAL	
40	4-049-416-01	SHEET, BLIND	
41	4-039-460-01	HOLDER, FBT	
42	*4-049-124-01	BRACKET, SPEAKER	
43	1-544-453-21	SPEAKER (2CM)	

SECTION 7
ELECTRICAL PARTS LIST

A1

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : μH, UH : μH

REF. NO.	PART NO.	DESCRIPTION				REMARK
	*A-1292-869-A	A1 BOARD, COMPLETE ******************				
		<CAPACITOR>				
C1201	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1202	1-104-665-11	ELECT	100MF	20%	16V	
C1203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1205	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1207	1-126-157-11	ELECT	10MF	20%	16V	
C1208	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1209	1-104-664-11	ELECT	47MF	20%	16V	
C1210	1-124-234-00	ELECT	22MF	20%	16V	
C1211	1-104-664-11	ELECT	47MF	20%	16V	
C1212	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1213	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1214	1-124-907-11	ELECT	10MF	20%	50V	
C1215	1-124-907-11	ELECT	10MF	20%	50V	
C1216	1-104-664-11	ELECT	47MF	20%	16V	
C1217	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C1218	1-104-664-11	ELECT	47MF	20%	16V	
C1219	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1221	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1222	1-104-664-11	ELECT	47MF	20%	16V	
C1223	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1225	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1227	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
		<FILTER>				
CF1201	1-527-943-00	FILTER, CERAMIC				
CF1202	1-567-101-11	FILTER, CERAMIC				
CF1203	1-567-099-00	FILTER, CERAMICO				
CF1204	1-567-100-00	FILTER, CERAMIC				
		<CONNECTOR>				
CN1201	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P				

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<FERRITE BEAD>				
FB1201	1-412-911-11	INDUCTOR, FERRITE BEAD				
		<IC>				
IC1201	8-759-991-41	IC LM78L05ACZ				
IC1202	8-759-070-71	IC TDA9820				
IC1203	8-759-248-80	IC AN5262-(NT)				
IC1204	8-759-800-81	IC LA7016				
IC1205	8-752-057-18	IC CXA1315P				
		<TRANSISTOR>				
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
R1201	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1202	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1203	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1204	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1205	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1206	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R1207	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R1208	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1209	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1210	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1211	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1213	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1215	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1216	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1217	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R1218	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1219	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1220	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1221	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1222	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1223	1-216-081-00	METAL GLAZE	22K	5%	1/10W	

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REF. NO.	PART NO.	DESCRIPTION				REMARK
R1224	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1225	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R1226	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1227	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1228	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1229	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1230	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1231	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
**						
	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))				
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))				
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))				
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11) *****************				
	1-533-223-11	CLIP, FUSE				
	*1-580-798-11	CONNECTOR PIN (DY) 6P				
	*4-049-131-01	CASE (A), SHIELD				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V	
C002	1-124-916-11	ELECT	22MF	20%	50V	
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C004	1-124-925-11	ELECT	2.2MF	20%	50V	
C007	1-124-902-00	ELECT	0.47MF	20%	50V	
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C011	1-104-664-11	ELECT	47MF	20%	16V	
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C015	1-101-884-00	CERAMIC	56PF	5%	50V	
C016	1-101-884-00	CERAMIC	56PF	5%	50V	
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C030	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C031	1-124-903-11	ELECT	1MF	20%	50V	
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C035	1-163-009-11	CERAMIC CHIP	0.001M	10	50V	
C036	1-163-009-11	CERAMIC CHIP	0.001M	10%	50V	
C039	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C041	1-130-491-00	MYLAR	0.047MF	5	50V	
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C043	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C050	1-124-903-11	ELECT	1MF	20%	50V	
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C055	1-126-941-11	ELECT	470MF	20%	16V	
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C072	1-126-941-11	ELECT	470MF	20%	16V	
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	

REF. NO.	PART NO.	DESCRIPTION				REMARK
C101	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C102	1-136-169-00	FILM	0.22MF	5%	50V	
C105	1-104-665-11	ELECT	100MF	20%	16V	
C106	1-124-907-11	ELECT	10MF	20%	50V	
C107	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C108	1-126-942-61	ELECT	1000MF	20%	16V	
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C116	1-136-165-00	FILM	0.1MF	5%	50V	
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C118	1-124-916-11	ELECT	22MF	20%	50V	
C119	1-163-059-00	CERAMIC CHIP	0.01MF		50V	
C120	1-130-493-00	MYLAR	0.068MF	5%	50V	
C121	1-130-493-00	MYLAR	0.068MF	5%	50V	
C122	1-104-665-11	ELECT	100MF	20%	16V	
C124	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C125	1-163-029-11	CERAMIC CHIP	0.0047MF		50V	
C234	1-104-664-11	ELECT	47MF	20%	16V	
C235	1-104-664-11	ELECT	47MF	20%	16V	
C236	1-126-968-11	ELECT	100MF	20%	35V	
C237	1-104-665-11	ELECT	100MF	20%	16V	
C238	1-136-167-00	FILM	0.15MF	5%	50V	
C241	1-124-557-11	ELECT	1000MF	20%	25V	
C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C243	1-126-233-11	ELECT	22MF	20%	25V	
C244	1-124-557-11	ELECT	1000MF	20%	25V	
C253	1-104-665-11	ELECT	100MF	20%	16V	
C258	1-136-169-00	FILM	0.22MF	5%	50V	
C300	1-104-664-11	ELECT	47MF	20%	16V	
C301	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	
C302	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	
C303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C311	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C312	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C313	1-104-665-11	ELECT	100MF	20%	16V	
C314	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C315	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V	
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C323	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C324	1-164-337-11	CERAMIC CHIP	2.2MF		16V	
C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V	
C327	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V	

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
C1225	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C1226	1-124-120-11	ELECT 220MF 20% 16V	
C1229	1-216-295-00	CONDUCTOR, CHIP (2012)	
C1513	1-124-122-11	ELECT 100MF 20% 50V	

<CONNECTOR>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P	
CN104	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-G25M11)	
CN251	*1-564-507-11	PLUG, CONNECTOR 4P	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)	
CN602	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN603	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN851	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	

<TRIMMER>

REF. NO.	PART NO.	DESCRIPTION	REMARK
CT45	1-579-690-21	TRAP, CERAMIC	
CT55	1-404-801-11	TRAP, CERAMIC	
CT60	1-409-429-11	TRAP, CERAMIC	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	

<DIODE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
D001	8-719-109-81	DIODE RD4.7ESB2	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-041-97	DIODE MA113-(TX)	
D004	8-719-109-84	DIODE RD5.1ESB1	
D005	8-719-109-84	DIODE RD5.1ESB1	
D101	8-719-041-97	DIODE MA113-(TX)	
D102	8-719-109-81	DIODE RD4.7ESB2	
D103	8-719-914-42	DIODE DA204K	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-914-42	DIODE DA204K	
D301	8-719-041-97	DIODE MA113-(TX)	
D302	8-719-041-97	DIODE MA113-(TX)	
D303	8-719-041-97	DIODE MA113-(TX)	
D304	8-719-041-97	DIODE MA113-(TX)	
D305	8-719-041-97	DIODE MA113-(TX)	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-041-97	DIODE MA113-(TX)	
D311	8-719-109-68	DIODE RD3.6ESB1	
D312	8-719-110-08	DIODE RD8.2ESB2	
D313	8-719-041-97	DIODE MA113-(TX)	
D314	8-719-041-97	DIODE MA113-(TX)	
D351	8-719-908-03	DIODE GP08D	
D401	8-719-421-40	DIODE MA77	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	
D561	8-719-911-19	DIODE 1SS119-25	
D591	8-719-911-19	DIODE 1SS119-25	
D601	8-719-052-84	DIODE RBV-406H-02	
D602	8-719-108-18	THYRISTOR 5P4M	
D603	8-719-112-87	DIODE RD13EST1B	
D604	8-719-110-36	DIODE RU4DS	
D605	8-719-052-52	DIODE 31DF2-FD5	
D606	8-719-052-52	DIODE 31DF2-FD5	
D607	8-719-510-26	DIODE D1NL20	
D609	8-719-510-26	DIODE D1NL20	
D610	8-719-510-26	DIODE D1NL20	
D611	8-719-510-26	DIODE D1NL20	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-900-26	DIODE ERD29-08J	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D891	8-719-945-80	DIODE ERC06-15S	
D901	8-719-054-60	DIODE LN0220022G	
D1201	8-719-121-24	DIODE RD9.1ESL	
D1202	8-719-121-24	DIODE RD9.1ESL	
D1207	8-719-121-24	DIODE RD9.1ESL	
D1208	8-719-121-24	DIODE RD9.1ESL	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-84	DIODE RD5.1ESB1	

<FUSE>

REF. NO.	PART NO.	DESCRIPTION	REMARK
F601	⚠1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-G25M1(ME)/(HK), KV-G25M11)	

<FERRITE BEAD>

REF. NO.	PART NO.	DESCRIPTION	REMARK
FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH (KV-G25M1(ME)/(HK), KV-G25M11)	
FB801	1-420-872-00	COIL, AIR CORE (KV-G25M1(RUSS))	

<IC>

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC001	8-752-866-21	IC CXP85116B-615S	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-093-95	IC CAT24C04P	
IC004	8-741-790-11	ELEMENT, RAY-CATCHER SBX1790-11	
IC102	8-759-157-40	IC UPC574J	
IC203	8-759-336-30	IC TA8223K	
IC300	8-759-339-50	IC TDA8366N3D	
IC351	8-759-293-27	IC TDA4665	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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F.NO.	PART NO.	DESCRIPTION				REMARK
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C332	1-136-165-00	FILM	0.1MF	5%	50V	
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C335	1-102-973-00	CERAMIC	100PF	5%	50V	
C337	1-124-916-11	ELECT	22MF	20%	50V	
C338	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V	
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C340	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C344	1-124-907-11	ELECT	10MF	20%	50V	
C350	1-104-664-11	ELECT	47MF	20%	16V	
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C352	1-164-222-11	CERAMIC CHIP	0.22MF		25V	
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C359	1-104-665-11	ELECT	100MF	20%	16V	
367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C374	1-124-910-11	ELECT	47MF	20%	50V	
C375	1-124-910-11	ELECT	47MF	20%	50V	
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C403	1-124-916-11	ELECT	22MF	20%	50V	
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C409	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C410	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C413	1-104-665-11	ELECT	100MF	20%	16V	
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10V	50V	
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C418	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C419	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C420	1-104-664-11	ELECT	47MF	20%	16V	
C422	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C423	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C424	1-216-295-00	CONDUCTOR, CHIP	(2012)			
C425	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C501	1-102-228-00	CERAMIC	470PF	10%	500V	
C523	1-104-665-11	ELECT	100MF	20%	16V	
C548	1-106-220-00	MYLAR	0.1MF	10%	100V	
C551	1-126-968-11	ELECT	100MF	20%	35V	
C552	1-126-968-11	ELECT	100MF	20%	35V	
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V	
C554	1-102-244-00	CERAMIC	220PF	10%	500V	
C555	1-101-804-00	CERAMIC	10PF	5%	500V	
C562	1-104-665-11	ELECT	100MF	20%	16V	
601	1-162-318-11	CERAMIC	0.001MF	10%	500V	
602	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C604	1-125-483-11	ELECT(BLOCK)	470MF	20%	400V	
C608	1-104-332-11	CERAMIC	470PF	10%	2KV	
C609	1-126-600-11	ELECT	100MF	20%	160V	
C610	1-126-942-61	ELECT	1000MF	20%	16V	
C612	1-102-228-00	CERAMIC	470PF	10%	500V	
C613	1-102-824-00	CERAMIC	470PF	5%	50V	
C614	1-124-557-11	ELECT	1000MF	20%	25V	
C615	⚠1-164-497-51	CERAMIC	470PF	10%	400V	
C616	1-102-228-00	CERAMIC	470PF	10%	500V	
C620	1-136-619-11	FILM	0.0016MF	3%	2KV	
C621	⚠1-136-548-13	FILM	0.1MF	20%	250V	
C622	1-106-383-00	MYLAR	0.047MF	10%	200V	
C623	1-124-120-11	ELECT	220MF	20%	16V	
C624	1-126-942-61	ELECT	1000MF	20%	16V	
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C630	⚠1-164-497-51	CERAMIC	470PF	10%	400V	
C631	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C801	1-123-024-21	ELECT	33MF		160V	
C802	1-106-367-00	MYLAR	0.01MF	10%	200V	
C804	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C805	1-102-244-00	CERAMIC	220PF	10%	500V	
C806	1-124-903-11	ELECT	1MF	20%	50V	
C807	1-136-540-11	FILM	0.82MF	5%	200V	
C808	1-130-959-00	FILM	0.047MF	10%	400V	
C809	1-162-115-00	CERAMIC	330PF	10%	2KV	
C810	1-106-365-00	MYLAR	0.0082MF	99%	200V	
C811	1-162-318-11	CERAMIC	0.001M	10%	500V	
C812	1-136-617-11	FILM	0.019M	3%	2KV	
C816	1-123-947-00	ELECT	10MF	20%	160V	
C820	1-162-135-11	CERAMIC	560PF	10%	2KV	
C821	1-106-391-12	MYLAR	0.1MF	10%	200V	
C822	1-136-541-11	FILM	1.5MF	5%	200V	
C823	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C825	1-106-367-00	MYLAR	0.01MF	10%	200V	
C850	1-124-480-11	ELECT	470MF	20%	25V	
C852	1-104-574-11	CERAMIC	0.0047MF	10	2KV	
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C854	1-124-480-11	ELECT	470MF	20%	25V	
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C857	1-130-493-00	MYLAR	0.068MF	5%	50V	
C860	1-102-228-00	CERAMIC	470PF	10%	500V	
C861	1-107-654-11	ELECT	33MF	20%	250V	
C875	1-124-910-11	ELECT	47MF	20%	50V	
C876	1-108-702-11	MYLAR	0.068MF	10%	100V	
C891	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	
C898	1-106-379-12	MYLAR	0.033MF	10%	100V	
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1201	1-104-665-11	ELECT	100MF	20%	16V	
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1204	1-104-665-11	ELECT	100MF	20%	16V	
C1205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1210	1-104-665-11	ELECT	100MF	20%	16V	
C1213	1-124-903-11	ELECT	1MF	20%	50V	
C1214	1-124-907-11	ELECT	10MF	20%	50V	
C1217	1-104-665-11	ELECT	100MF	20%	16V	
C1218	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
C1221	1-164-005-11	CERAMIC CHIP	0.47MF		25V	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-065-00	METAL GLAZE 4.7K 5 1/10W	
R027	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R028	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R029	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R030	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R031	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R033	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R035	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R036	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R038	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R040	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R041	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R042	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R043	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R044	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R046	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R047	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R048	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R049	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R050	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R051	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R052	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R054	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R057	1-216-049-00	METAL GLAZE 1K 5 1/10W	
R059	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R067	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R068	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R071	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R076	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R077	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R090	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R101	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R102	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R103	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R113	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R114	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R115	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R116	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R117	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R118	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R119	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R120	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R131	1-216-464-11	METAL OXIDE 18K 5% 2W	F
R180	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R181	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R182	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R242	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R243	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R244	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R245	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R250	1-216-295-00	CONDUCTOR, CHIP (2012)	
R251	1-216-295-00	CONDUCTOR, CHIP (2012)	
R252	1-249-411-11	CARBON 330 5% 1/4W	
R253	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R254	1-249-389-11	CARBON 4.7 5% 1/4W	
R265	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R266	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R301	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R302	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R303	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R304	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R305	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R306	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R307	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R308	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R309	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R310	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R311	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R312	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R313	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R314	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R315	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R316	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W (KV-G25M11)	
R317	1-216-049-00	METAL GLAZE 1K 5% 1/10W (KV-G25M11)	
R318	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
R319	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
R320	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R321	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R322	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R324	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R327	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R327	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R328	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R328	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R329	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-G25M11)	
R329	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M1)	
R330	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R332	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R334	1-216-041-00	METAL GLAZE 470 5% 1/10W (KV-G25M11)	
R335	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R336	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R338	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R339	1-216-036-00	METAL GLAZE 300 5% 1/10W	
R340	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R341	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R351	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R355	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R356	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R403	1-216-021-00	METAL GLAZE 68 5% 1/10W	
R406	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R407	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R408	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R409	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R410	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R411	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R412	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R413	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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EF. NO.	PART NO.	DESCRIPTION	REMARK
IC354	8-759-251-56	IC TDA8395T	
IC401	8-759-800-65	IC LA7910	
IC521	8-759-195-63	IC PQ09RE11	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-010-84	IC STR-S6708	
IC602	8-749-920-61	IC SE-135N	
IC603	⚠ 8-749-010-64	PHOTO COUPLER PC123F2	
IC801	8-759-100-96	IC UPC4558G2	
IC1210	8-759-100-96	IC UPC4558G2	
		<JACK>	
J251	1-770-785-11	JACK	
J1201	1-770-660-11	JACK BLOCK, PIN 4P	
J1202	1-695-238-11	JACK BLOCK, PIN 2P	
		<CHIP CONDUCTOR>	
JR102	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR103	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
JR104	1-216-295-00	CONDUCTOR, CHIP (2012)	
		<COIL>	
L002	1-410-470-11	INDUCTOR 10UH	
L003	1-408-411-00	INDUCTOR 15UH	
L101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
L301	1-408-609-41	INDUCTOR 33UH	
L401	1-410-498-11	INDUCTOR 1.2UH.	
L402	1-410-510-11	INDUCTOR 12UH	
L403	1-410-510-11	INDUCTOR 12UH	
L404	1-410-508-11	INDUCTOR 8.2UH	
L405	1-410-508-11	INDUCTOR 8.2UH	
L406	1-410-507-11	INDUCTOR 6.8UH	
L407	1-410-511-11	INDUCTOR 15UH	
L408	1-535-303-00	LEAD, JUMPER (5.0MM)	
L409	1-535-303-00	LEAD, JUMPER (5.0MM)	
L410	1-535-303-00	LEAD, JUMPER (5.0MM)	
L411	1-535-303-00	LEAD, JUMPER (5.0MM)	
L802	1-412-527-11	INDUCTOR 15UH	
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-412-553-11	INDUCTOR 3.3MMH	
L821	1-459-111-00	COIL, DRAM CORE (CDI)	
L850	1-408-947-00	INDUCTOR 2.2MMH	
		<TRANSISTOR>	
Q030	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q031	8-729-216-22	TRANSISTOR 2SA1162-G	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q109	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
Q208	8-729-901-01	TRANSISTOR DTC144EK	
Q210	8-729-900-98	TRANSISTOR DTC143TK	
Q301	8-729-900-53	TRANSISTOR DTC114EK	
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-G25M11)
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q403	8-729-900-98	TRANSISTOR DTC143TK	
Q404	8-729-900-98	TRANSISTOR DTC143TK	
Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q413	8-729-900-98	TRANSISTOR DTC143TK	
Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q415	8-729-900-98	TRANSISTOR DTC143TK	
Q416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q417	8-729-900-98	TRANSISTOR DTC143TK	
Q418	8-729-900-98	TRANSISTOR DTC143TK	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	
Q601	8-729-120-28	TRANSISTOR 2SC2412K	
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
Q902	8-729-901-01	TRANSISTOR DTC144EK	
Q903	8-729-901-01	TRANSISTOR DTC144EK	
Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1265	8-729-900-98	TRANSISTOR DTC143TK	
Q1513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R001	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R002	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R003	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R004	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R008	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R009	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R010	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R012	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R013	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R014	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R015	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R018	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R019	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W	(KV-G25M11)

A **C**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R910	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R911	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R913	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R914	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R915	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1201	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1202	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1203	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1205	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1206	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1211	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R1212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1215	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1216	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1218	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1219	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1220	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1221	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1227	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1228	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1229	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1230	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1231	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1232	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R1233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1235	1-216-689-11	METAL GLAZE	39K	5%	1/10W	
R1239	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1240	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1241	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1243	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1245	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1246	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R1247	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1248	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R1249	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R1513	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1514	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1515	1-216-025-00	METAL GLAZE	100	5%	1/10W	
		<SWITCH>				
S601	⚠1-762-087-11	SWITCH, PUSH (AC POWER)				
S801	1-572-707-11	SWITCH, LEVER				
S901	1-570-577-11	SWITCH, PUSH				
S902	1-570-577-11	SWITCH, PUSH				
S903	1-570-577-11	SWITCH, PUSH				
S904	1-570-577-11	SWITCH, PUSH				
S905	1-570-577-11	SWITCH, PUSH				
		<SPARK GAP>				
SG801	1-519-422-11	GAP, SPARK				
		<FILTER>				
SWF401	1-760-771-11	FILTER, SURFACE WAVE				

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSFORMER>	
T601	⚠1-429-139-11	TRANSFORMER, CONVERTER (SRT)	
T605	⚠1-424-461-11	TRANSFORMER, LINE FILTER	
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851	⚠1-453-190-11	TRANSFORMER ASSY, FLYBACK (NX-2743//M3B)	
		<THERMISTOR>	
THP601	⚠1-810-961-11	THERMISTOR, POSITIVE	
		<TUNER>	
TU101	⚠8-598-323-00	TUNER BT-AG401	
		<CRYSTAL>	
X101	1-577-082-11	VIBRATOR, CERAMIC	
X300	1-404-835-31	COIL, IF	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

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*A-1331-428-A C BOARD, COMPLETE
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REF. NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C701	1-162-114-00	CERAMIC	0.0047MF	2KV		
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C704	1-130-202-00	FILM	0.022MF	5%	400V	
C708	1-102-114-00	CERAMIC	470PF	10%	50V	
C709	1-102-114-00	CERAMIC	470PF	10%	50V	
C710	1-102-114-00	CERAMIC	470PF	10%	50V	
C712	1-101-361-00	CERAMIC	150PF	5%	50V	
C713	1-102-971-00	CERAMIC	82PF	5%	50V	
C714	1-101-361-00	CERAMIC	150PF	5%	50V	
C716	1-124-122-11	ELECT	100MF	20%	50V	
		<CONNECTOR>				
CN701	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				
CN703	*1-564-509-11	PLUG, CONNECTOR 6P				
CN704	1-695-915-11	TAB (CONTACT)				
		<DIODE>				
D701	8-719-911-19	DIODE 1SS119-25				
D702	8-719-911-19	DIODE 1SS119-25				
D703	8-719-911-19	DIODE 1SS119-25				
D704	8-719-911-19	DIODE 1SS119-25				
D705	8-719-911-19	DIODE 1SS119-25				
D706	8-719-911-19	DIODE 1SS119-25				
D707	8-719-911-19	DIODE 1SS119-25				
D708	8-719-911-19	DIODE 1SS119-25				
D709	8-719-911-19	DIODE 1SS119-25				
D710	8-719-911-19	DIODE 1SS119-25				

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION				REMARK
R414	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R415	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R416	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R417	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R418	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R419	1-216-049-00	METAL GLAZE	1K	5	1/10W	
R420	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R421	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R422	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R423	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R424	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R425	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R426	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R427	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R428	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R429	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R430	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R431	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R432	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R433	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R434	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R435	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R436	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R437	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R440	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R441	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R521	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R552	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				
R553	1-216-295-00	CONDUCTOR, CHIP (2012)				
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				
R555	1-249-429-11	CARBON	10K	5%	1/4W	
R556	1-216-049-00	METAL GLAZE	1K	5	1/10W	
R557	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R560	1-216-295-00	CONDUCTOR, CHIP (2012)				
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R562	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R563	1-247-885-00	CARBON	180K	5%	1/4W	
R564	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R565	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R566	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R569	1-247-883-00	CARBON	150K	5%	1/4W	
R570	1-216-295-00	CONDUCTOR, CHIP (2012)				
		(KV-G25M1(RUSS)/(HK), KV-G25M11)				
R603	1-249-416-11	CARBON	820	5%	1/4W	F
R604	1-249-416-11	CARBON	820	5%	1/4W	F
R606	1-215-915-11	METAL OXIDE	470	5%	3W	F
R608	1-535-303-00	LEAD, JUMPER (5.0MM)				
R609	1-249-381-11	CARBON	1	5%	1/4W	
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R612	1-249-377-11	CARBON	0.47	5%	1/4W	F
R613	1-249-377-11	CARBON	0.47	5%	1/4W	F
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-389-11	CARBON	4.7	5%	1/4W	
R616	⚠1-218-265-91	METAL	8.2M	5%	1W	
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R619	1-249-377-11	CARBON	0.47	5%	1/4W	F
R621	1-211-748-11	FUSIBLE	5.6	5%	5W	F
R622	1-217-190-21	WIREWOUND	0.15	10%	2W	F
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-215-881-11	METAL OXIDE	15	5%	2W	F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-401-11	CARBON	47	5%	1/4W	
R635	1-215-882-00	METAL OXIDE	22	5%	2W	F
				(KV-G25M11)		
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R802	1-249-387-11	CARBON	3.3	5%	1/4W	F
R804	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R805	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R808	1-535-303-00	LEAD, JUMPER (5.0MM)				
R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R811	1-216-346-00	METAL OXIDE	0.56	5%	1W	F
R812	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R816	1-249-430-11	CARBON	12K	5%	1/4W	
R820	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R821	1-215-910-00	METAL OXIDE	68	5%	3W	F
R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R823	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R826	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R827	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R828	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R829	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R831	1-216-426-11	METAL OXIDE	82	5%	1W	F
R832	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-249-923-11	CARBON	1K	5%	1/4W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-202-818-00	SOLID	1K	20%	1/2W	
R856	1-249-425-11	CARBON	4.7K	5%	1/4W	
R857	1-249-438-11	CARBON	56K	5%	1/4W	
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	FZ
R860	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-216-043-91	METAL GLAZE	560	5%	1/10W	
R882	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R883	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R895	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R902	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R904	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R905	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R906	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R907	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R908	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R909	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSFORMER>	
T1601	⚠1-424-436-11	TRANSFORMER, LINE FILTER	
T1602	⚠1-424-436-11	TRANSFORMER, LINE FILTER	

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*A-1347-103-A V1 BOARD, COMPLETE (KV-G25M11)
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		<CAPACITOR>			
C01	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C02	1-124-907-11	ELECT	10MF	20%	50V
C03	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C04	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C05	1-124-907-11	ELECT	10MF	20%	50V
C06	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C07	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50
C09	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C10	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C11	1-164-346-11	CERAMIC CHIP	1MF	16V	
C12	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C13	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C14	1-216-295-00	CONDUCTOR, CHIP		(2012)	
C15	1-124-482-11	ELECT	33MF	20%	35V
C16	1-126-963-11	ELECT	4.7MF	20%	50V
C17	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C19	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C22	1-124-907-11	ELECT	10MF	20%	50V
C23	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C25	1-124-907-11	ELECT	10MF	20%	50V
C26	1-124-119-00	ELECT	330MF	20%	16V
C27	1-104-665-11	ELECT	100MF	20%	16V
C28	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C29	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C30	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C31	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
		<CONNECTOR>			
CN01	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P			
		<DIODE>			
D001	8-719-105-51	DIODE RD3.6M-B1			
D03	8-719-914-43	DIODE DAN202K			
D04	8-719-105-91	DIODE RD5.6M-B2			
D05	8-719-914-44	DIODE DAP202K			
D06	8-719-914-43	DIODE DAN202K			
		<FERRITE BEAD>			
FB01	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH			

REF.NO.	PART NO.	DESCRIPTION			REMARI
		<IC>			
IC01	8-759-324-28	IC P83C654			
IC02	8-759-298-63	IC SAA5281ZP/E			
		<CHIP CONDUCTOR>			
JR02	1-216-295-00	CONDUCTOR, CHIP (2012)			
JR03	1-216-295-00	CONDUCTOR, CHIP (2012)			
JR04	1-216-295-00	CONDUCTOR, CHIP (2012)			
JR07	1-216-295-00	CONDUCTOR, CHIP (2012)			
JR08	1-216-295-00	CONDUCTOR, CHIP (2012)			
		<COIL>			
L01	1-410-464-11	INDUCTOR	3.3UH		
L03	1-410-464-11	INDUCTOR	3.3UH		
L04	1-410-464-11	INDUCTOR	3.3UH		
L05	1-410-464-11	INDUCTOR	3.3UH		
L06	1-410-464-11	INDUCTOR	3.3UH		
		<TRANSISTOR>			
Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q02	8-729-900-53	TRANSISTOR DTC114EK			
Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q05	8-729-216-22	TRANSISTOR 2SA1162-G			
Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q07	8-729-019-01	TRANSISTOR 2SD2394-EF			
Q08	8-729-140-96	TRANSISTOR 2SD774-34			
Q09	8-729-901-04	TRANSISTOR DTA114EK			
		<RESISTOR>			
R01	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R02	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R03	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R04	1-216-025-00	METAL GLAZE	100	5%	1/10W
R05	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R06	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R07	1-216-025-00	METAL GLAZE	100	5%	1/10W
R08	1-216-025-00	METAL GLAZE	100	5%	1/10W
R09	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R10	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R11	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R12	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R13	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R16	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R17	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R18	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R19	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R20	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R21	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R22	1-216-041-00	METAL GLAZE	470	5%	1/10W
R24	1-216-025-00	METAL GLAZE	100	5%	1/10W
R25	1-216-025-00	METAL GLAZE	100	5%	1/10W
R26	1-216-049-00	METAL GLAZE	1K	5%	1/10W

The components identified by shading
and mark ⚠ are critical for safety.
Replace only with part number specified.

F. NO.	PART NO.	DESCRIPTION				REMARK
D711	8-719-911-19	DIODE 1SS119-25				
D712	8-719-911-19	DIODE 1SS119-25				
D716	8-719-911-19	DIODE 1SS119-25				
D717	8-719-121-24	DIODE RD9.1ESL				
		<JACK>				
J701	⚠1-251-239-21	SOCKET, CRT				
		<COIL>				
L701	1-410-667-31	INDUCTOR	22UH			
L702	1-535-303-00	LEAD, JUMPER (5.0MM)				
L703	1-408-609-41	INDUCTOR	33UH			
L704	1-535-303-00	LEAD, JUMPER (5.0MM)				
L705	1-408-609-41	INDUCTOR	33UH			
L706	1-535-303-00	LEAD, JUMPER (5.0MM)				
L707	1-408-609-41	INDUCTOR	33UH			
		<TRANSISTOR>				
Q701	8-729-326-11	TRANSISTOR 2SC2611				
Q702	8-729-326-11	TRANSISTOR 2SC2611				
Q703	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-200-17	TRANSISTOR 2SA1091-O				
Q709	8-729-200-17	TRANSISTOR 2SA1091-O				
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q714	8-729-255-12	TRANSISTOR 2SC2551-O				
		<RESISTOR>				
R701	1-244-941-00	CARBON	680K	5%	1/2W	
R702	1-249-496-11	CARBON	100K	5%	1/2W	
R703	1-249-496-11	CARBON	100K	5%	1/2W	
R705	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R710	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R711	1-247-758-11	CARBON	3.3K	5%	1/2W	
R712	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R713	1-247-758-11	CARBON	3.3K	5%	1/2W	
R714	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R715	1-247-758-11	CARBON	3.3K	5%	1/2W	
R716	1-249-899-11	CARBON	100	5%	1/4W	F
R717	1-249-405-11	CARBON	100	5%	1/4W	F
R718	1-249-899-11	CARBON	100	5%	1/4W	F
R719	1-215-487-00	METAL	560K	1%	1/4W	
R720	1-249-417-11	CARBON	1K	5%	1/4W	F
721	1-215-491-00	METAL	820K	1%	1/4W	
722	1-249-923-11	CARBON	1K	5%	1/4W	F
R723	1-215-489-00	METAL	680K	1%	1/4W	
R724	1-249-417-11	CARBON	1K	5%	1/4W	F
R725	1-249-422-11	CARBON	2.7K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R726	1-249-422-11	CARBON	2.7K	5%	1/4W	
R727	1-249-422-11	CARBON	2.7K	5%	1/4W	
R728	1-215-410-00	METAL	360	1%	1/4W	
R729	1-215-410-00	METAL	360	1%	1/4W	
R730	1-215-410-00	METAL	360	1%	1/4W	
R731	1-535-303-00	LEAD, JUMPER (5.0MM)				
R732	1-535-303-00	LEAD, JUMPER (5.0MM)				
R733	1-535-303-00	LEAD, JUMPER (5.0MM)				
R734	1-247-739-11	CARBON	100	5%	1/2W	
R738	1-247-807-31	CARBON	100	5%	1/4W	
R739	1-247-807-31	CARBON	100	5%	1/4W	
R740	1-247-807-31	CARBON	100	5%	1/4W	
R747	1-216-489-11	METAL OXIDE	27K	5%	3W	F
R749	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R751	1-215-926-00	METAL OXIDE	33K	5%	3W	F
R753	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-427-11	CARBON	6.8K	5%	1/4W	
R756	1-249-427-11	CARBON	6.8K	5%	1/4W	
R757	1-249-427-11	CARBON	6.8K	5%	1/4W	
R758	1-249-419-11	CARBON	1.5K	5%	1/4W	
R759	1-249-419-11	CARBON	1.5K	5%	1/4W	
R760	1-249-419-11	CARBON	1.5K	5%	1/4W	F
		<VARIABLE RESISTOR>				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				

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*A-1241-190-A F1 BOARD, COMPLETE (KV-G25M1(RUSS)
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	1-533-223-11	CLIP, FUSE				
		<CAPACITOR>				
C1601	⚠1-104-706-51	FILM	0.22MF	20%	250V	
		<CONNECTOR>				
CN1601	*1-580-843-11	PIN, CONNECTOR (POWER)				
CN1602	*1-580-843-11	PIN, CONNECTOR (POWER)				
		<FUSE>				
F1601	⚠1-532-465-31	FUSE, TIME-LAG (BET) 3.15A/250V				
		<RESISTOR>				
R1601	⚠1-202-916-91	SOLID	5.6M	20%	1/2W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R27	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R28	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R29	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R30	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R31	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R32	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R33	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R34	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R36	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R37	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R38	1-260-085-11	CARBON 68 5% 1/2W	
R41	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R43	1-216-295-00	CONDUCTOR, CHIP (2012)	
R44	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R45	1-216-021-00	METAL GLAZE 68 5% 1/10W	
R46	1-216-021-00	METAL GLAZE 68 5% 1/10W	
R47	1-216-021-00	METAL GLAZE 68 5% 1/10W	
		<CRYSTAL>	
X01	1-579-266-31	CRYSTAL VIBRATOR	

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-544-453-21	SPEAKER (2CM)	
	1-504-305-11	SPEAKER (5X12CM)	
	⚠8-733-234-05	PICTURE TUBE (M60KWL10X)	
	⚠8-451-404-11	DEFLECTION YOKE (Y25GXAS)	
	⚠1-403-619-11	COIL, DEMAGNETIZATION	
	⚠1-524-062-22	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-G25M1(ME)/M1(RUSS)/M11)	
	⚠1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-G25M1(HK))	

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ACCESSORIES AND PACKING MATERIALS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	3-800-141-21	MANUAL, INSTRUCTION (KV-G25M1(ME)	
	3-800-141-41	MANUAL, INSTRUCTION (KV-G25M1(HK)/M11)	
	3-800-141-51	MANUAL, INSTRUCTION (KV-G25M1(RUSS))	
	*4-029-168-01	BAG, PROTECTION (KV-G25M11)	
	*4-039-372-01	BAG, PROTECTION (KV-G25M1)	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	4-392-003-11	BAND, HOLD	
	4-392-004-11	CLIP	
	⚠1-569-008-11	ADAPTER, CONVERSION 2P (KV-G25M1(ME)/M1(RUSS))	
	*4-047-806-01	CUSHION (UPPER) (ASSY) (KV-G25M1)	
	*4-047-807-01	CUSHION (LOWER) (ASSY) (KV-G25M1)	
	*4-047-808-01	INDIVIDUAL CARTON (KV-G25M1)	

REMOTE COMMANDER
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-473-323-11	REMOTE COMMANDER (RM-870)	